

Data File : VU028780.D
Acq On : 18 Dec 2018 19:23
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

Quant Time: Dec 19 00:44:15 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM120718WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 19 00:38:48 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	184722	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	175071	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	82701	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	80234	46.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.02%
7) Chloroethane-d5	1.67	69	61229	47.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.70%
11) 1,1-Dichloroethene-d2	2.27	63	134606	44.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.50%
21) 2-Butanone-d5	4.18	46	121564	87.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.74%
24) Chloroform-d	4.65	84	126816	46.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.90%
26) 1,2-Dichloroethane-d4	5.31	65	76729	42.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.24%
32) Benzene-d6	5.34	84	269638	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.52%
36) 1,2-Dichloropropane-d6	6.33	67	93159	47.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.78%
41) Toluene-d8	7.56	98	248242	49.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.46%
43) trans-1,3-Dichloropropene-	7.85	79	41396	46.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.08%
47) 2-Hexanone-d5	8.31	63	94972	99.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	128305	50.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.48%
64) 1,2-Dichlorobenzene-d4	11.86	152	89495	53.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	68255	44.365 ug/L	99
3) Chloromethane	1.33	50	102512	43.334 ug/L	97
5) Vinyl chloride	1.40	62	98348	48.031 ug/L	98
6) Bromomethane	1.61	94	38878	63.260 ug/L	95
8) Chloroethane	1.69	64	57771	49.235 ug/L	99
9) Trichlorofluoromethane	1.88	101	103331	48.327 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	67182	52.319 ug/L	95
12) 1,1-Dichloroethene	2.28	96	65404	53.747 ug/L #	65
13) Acetone	2.32	43	87700	56.620 ug/L	94
14) Carbon disulfide	2.48	76	209584	46.427 ug/L	100
15) Methyl Acetate	2.61	43	98694	45.722 ug/L	92
16) Methylene chloride	2.70	84	81291	51.097 ug/L	89
17) trans-1,2-Dichloroethene	2.98	96	71607	50.749 ug/L	91
18) Methyl tert-butyl Ether	3.00	73	233262	49.074 ug/L	96
19) 1,1-Dichloroethane	3.44	63	147415	49.285 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	83632	52.260 ug/L	93
22) 2-Butanone	4.26	43	139162	76.105 ug/L	92

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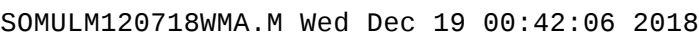
Quant Time: Dec 19 00:44:15 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM120718WMA.M
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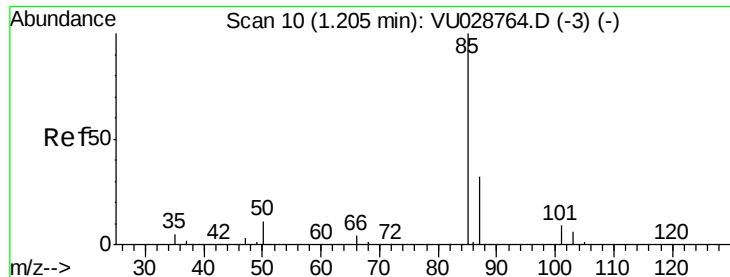
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.55	128	40012	55.993	ug/L #	83
25) Chloroform	4.67	83	136171	49.437	ug/L	98
27) 1,2-Dichloroethane	5.40	62	103496	45.458	ug/L	96
29) Cyclohexane	5.00	56	133593	46.108	ug/L	92
30) 1,1,1-Trichloroethane	4.91	97	106619	49.055	ug/L	98
31) Carbon tetrachloride	5.13	117	85049	48.368	ug/L	99
33) Benzene	5.39	78	329641	52.786	ug/L	100
34) Trichloroethene	6.18	95	76759	50.606	ug/L	91
35) Methylcyclohexane	6.41	83	127682	49.930	ug/L	94
37) 1,2-Dichloropropane	6.43	63	94068	50.390	ug/L	100
38) Bromodichloromethane	6.76	83	101403	49.393	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	131113	49.487	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	263774	92.790	ug/L #	93
42) Toluene	7.64	91	335850	52.940	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	117344	48.017	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	79565	54.390	ug/L	96
46) Tetrachloroethene	8.22	164	57984	54.027	ug/L	97
48) 2-Hexanone	8.36	43	205744	85.535	ug/L #	94
49) Dibromochloromethane	8.48	129	77285	52.226	ug/L	97
50) 1,2-Dibromoethane	8.58	107	82683	53.893	ug/L	99
51) Chlorobenzene	9.12	112	208432	54.538	ug/L	94
52) Ethylbenzene	9.25	91	358142	50.994	ug/L	98
53) m,p-Xylene	9.37	106	133315	52.436	ug/L	92
54) o-xylene	9.78	106	134700	53.954	ug/L	96
55) Styrene	9.79	104	233258	55.027	ug/L	94
56) Isopropylbenzene	10.16	105	339651	52.192	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	144094	53.629	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	111582	52.900	ug/L	100
61) Bromoform	9.96	173	58846	55.605	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	152088	53.883	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	154308	54.024	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	158273	56.122	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	27490	49.508	ug/L	83
67) 1,3,5-Trichlorobenzene	12.89	180	112112	54.694	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	97370	50.644	ug/L	99
69) Naphthalene	13.74	128	349194	54.721	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	104009	54.157	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.365 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

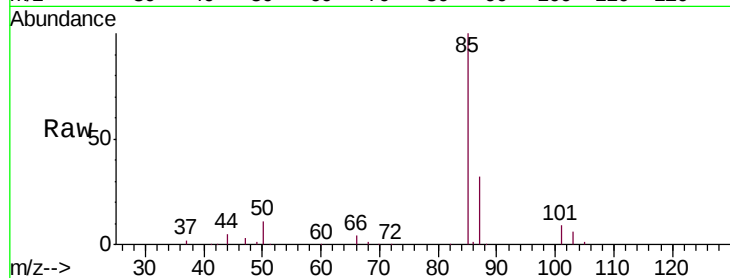
VSTD05046

Tgt Ion: 85 Resp: 68255

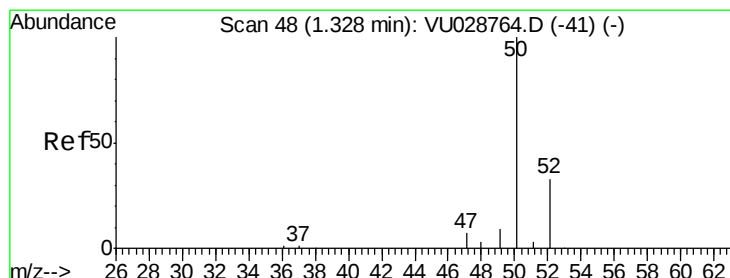
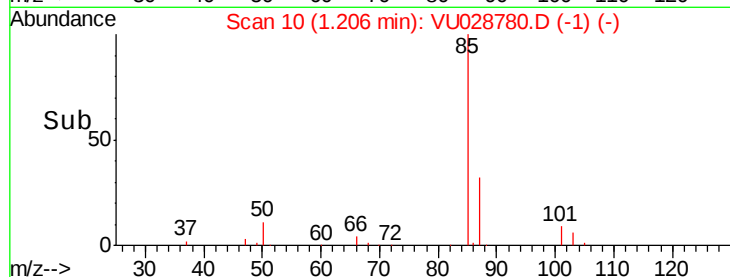
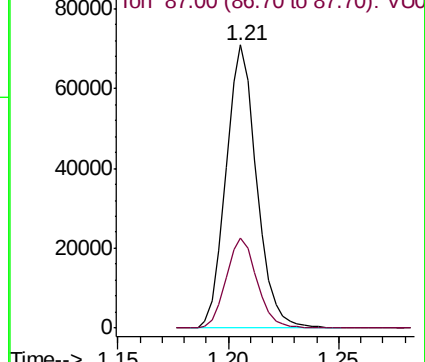
Ion Ratio Lower Upper

85 100

87 31.9 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU028764.D (-3) (-)



#3

Chloromethane

Concen: 43.334 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028780.D

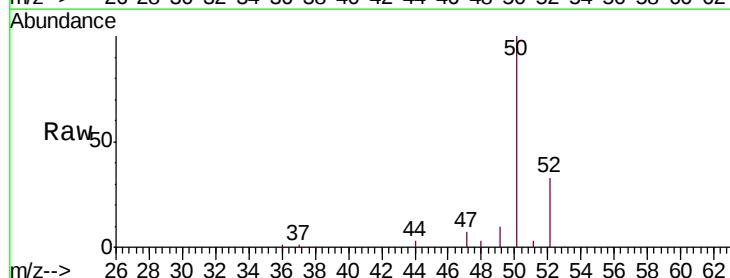
Acq: 18 Dec 2018 19:23

Tgt Ion: 50 Resp: 102512

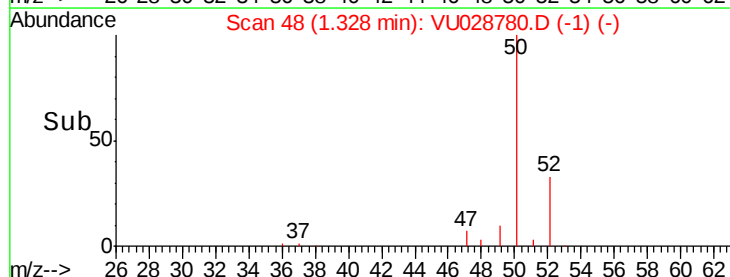
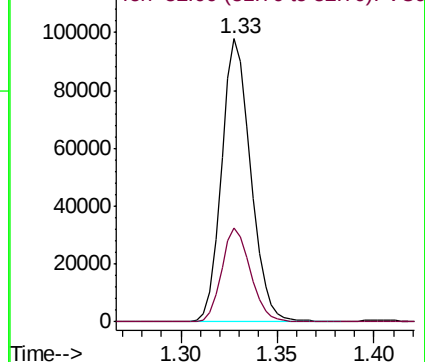
Ion Ratio Lower Upper

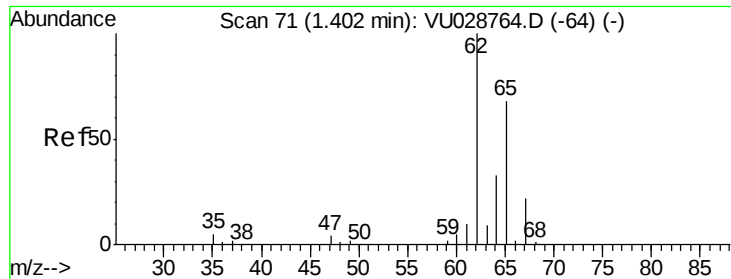
50 100

52 33.0 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VU028764.D (-41) (-)





#5

Vinyl chloride

Concen: 48.031 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

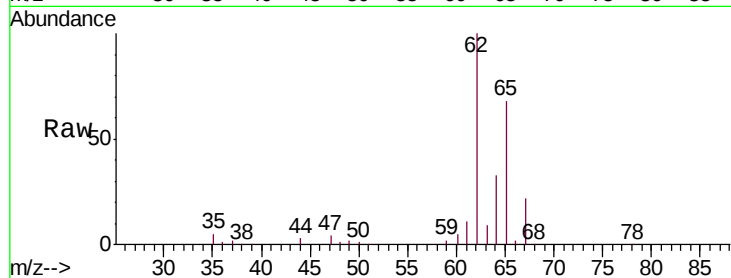
VSTD05046

Tgt Ion: 62 Resp: 98348

Ion Ratio Lower Upper

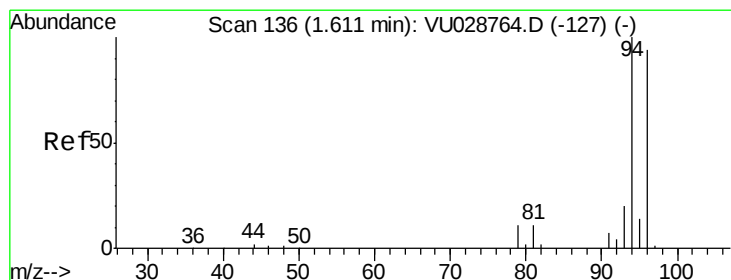
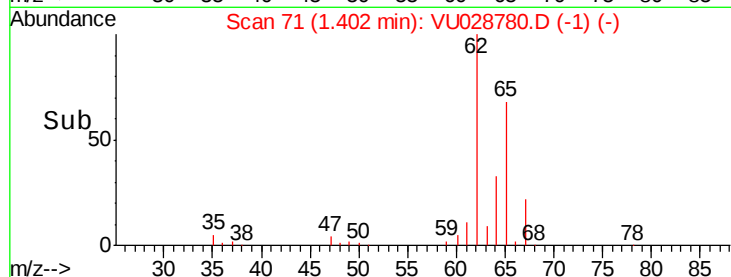
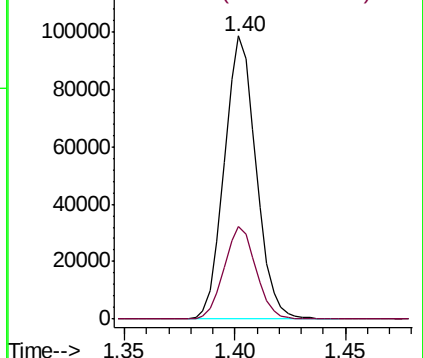
62 100

64 32.8 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 63.260 ug/L

RT: 1.61 min Scan# 137

Delta R.T. 0.00 min

Lab File: VU028780.D

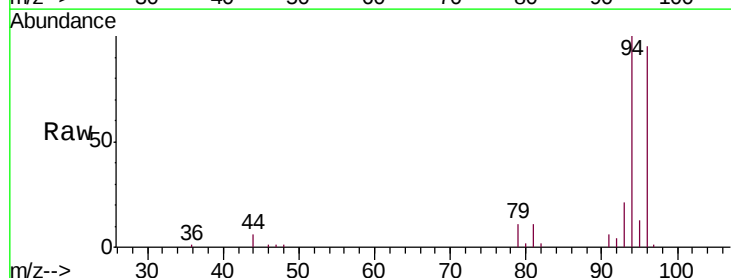
Acq: 18 Dec 2018 19:23

Tgt Ion: 94 Resp: 38878

Ion Ratio Lower Upper

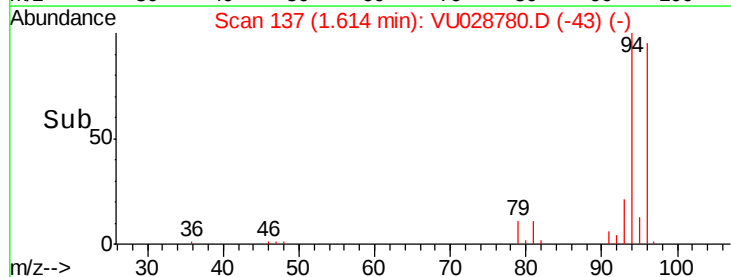
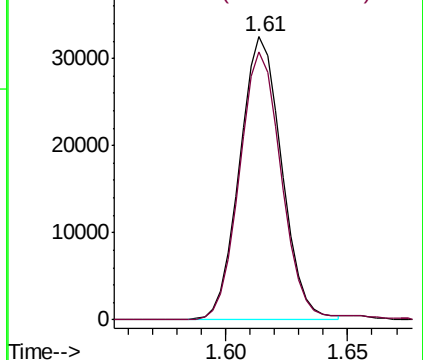
94 100

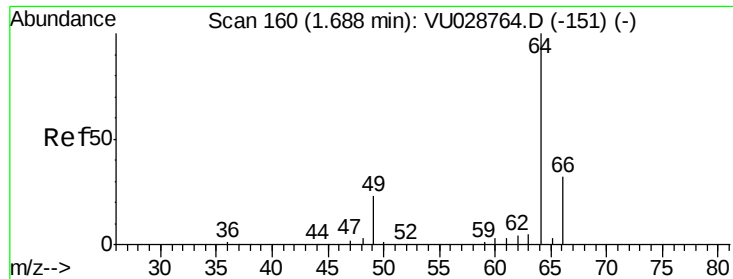
96 94.8 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 49.235 ug/L

RT: 1.69 min Scan# 161

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

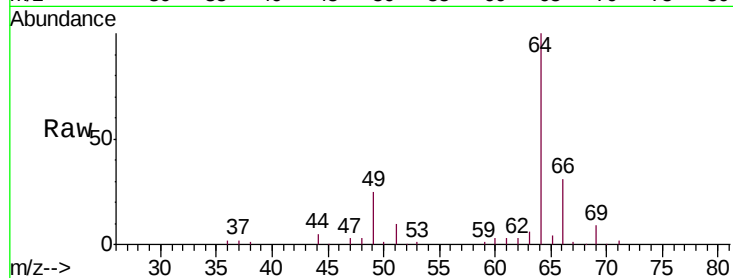
VSTD05046

Tgt Ion: 64 Resp: 57771

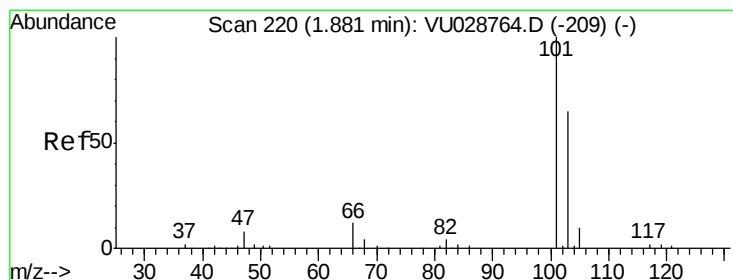
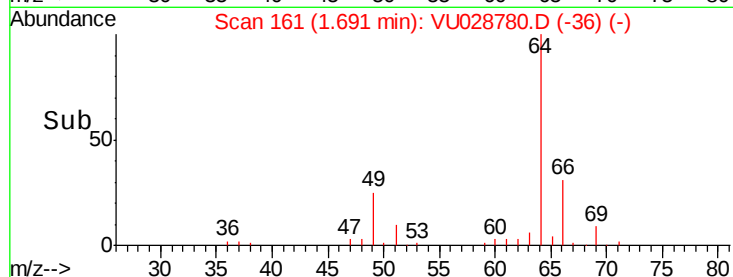
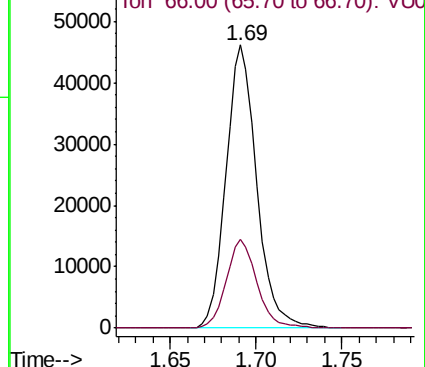
Ion Ratio Lower Upper

64 100

66 31.2 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU028764.D (-151) (-)



#9

Trichlorofluoromethane

Concen: 48.327 ug/L

RT: 1.88 min Scan# 221

Delta R.T. 0.00 min

Lab File: VU028780.D

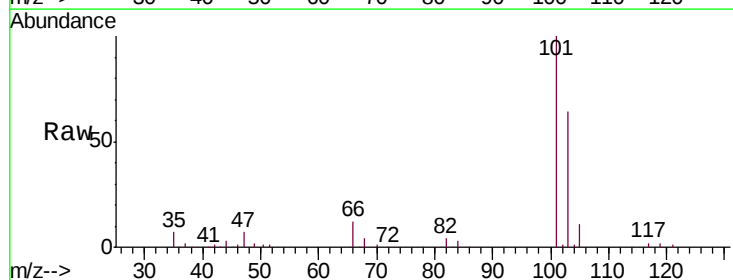
Acq: 18 Dec 2018 19:23

Tgt Ion: 101 Resp: 103331

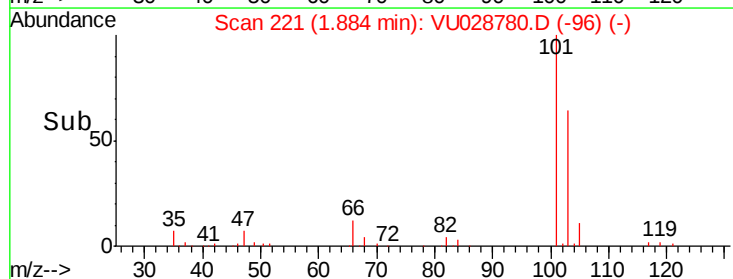
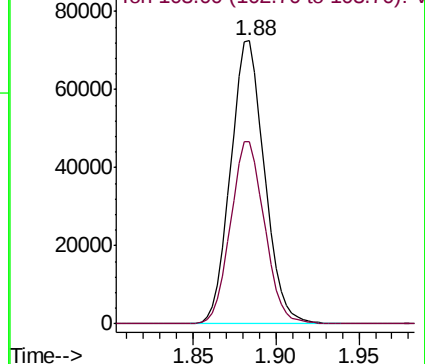
Ion Ratio Lower Upper

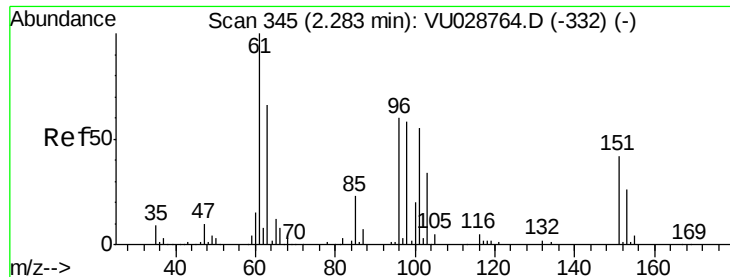
101 100

103 64.2 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU028764.D (-209) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 52.319 ug/L

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

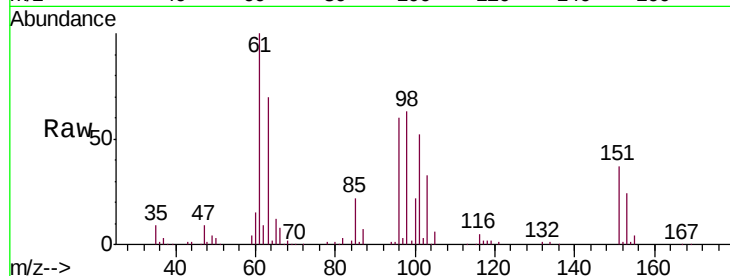
Tgt Ion:101 Resp: 67182

Ion Ratio Lower Upper

101 100

85 41.7 36.8 55.2

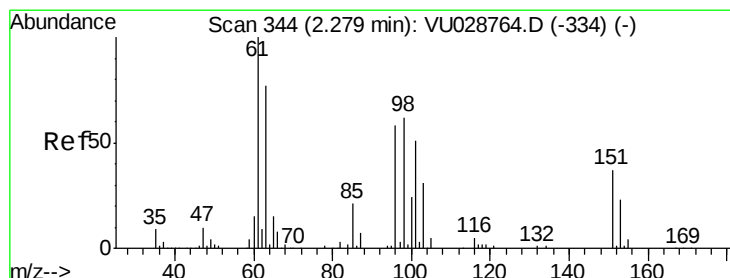
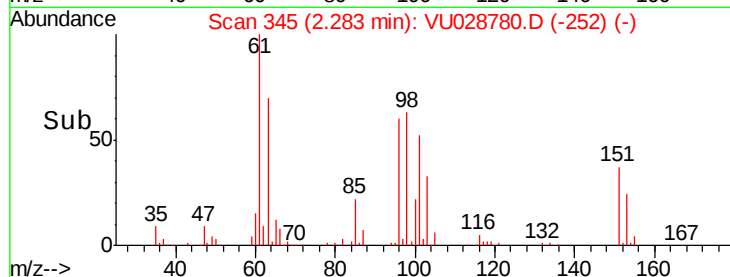
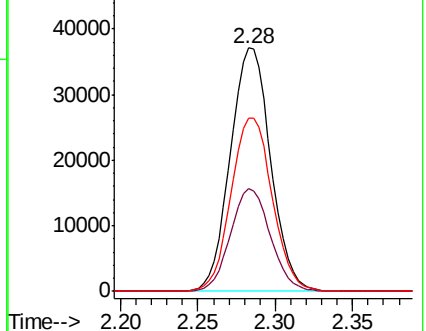
151 72.7 55.8 83.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 53.747 ug/L

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

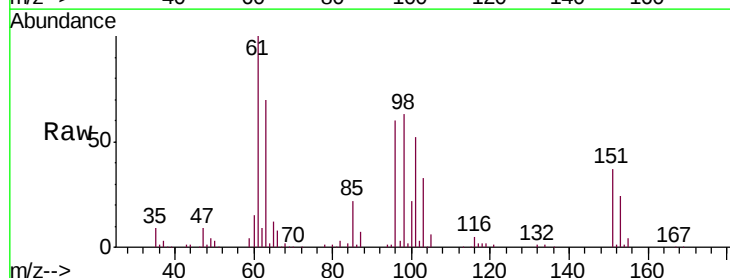
Tgt Ion: 96 Resp: 65404

Ion Ratio Lower Upper

96 100

61 167.6 143.2 266.0

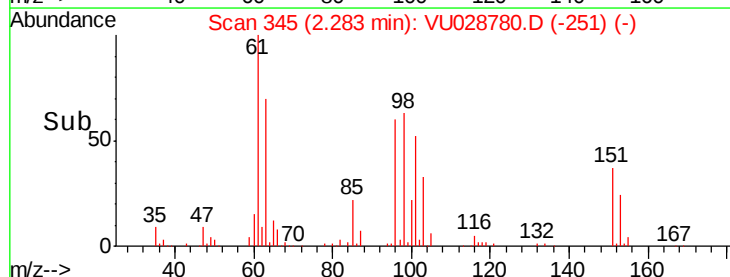
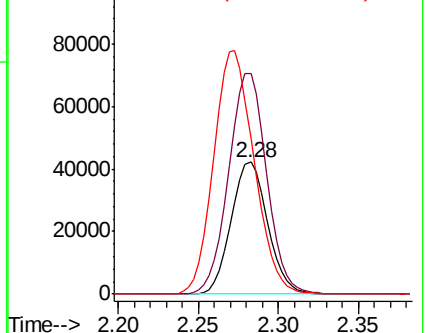
63 118.2 130.1 241.7#

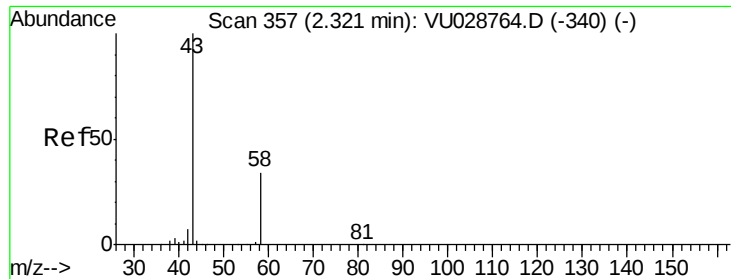


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 56.620 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

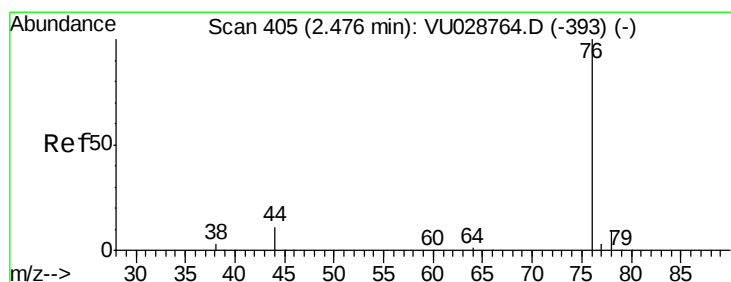
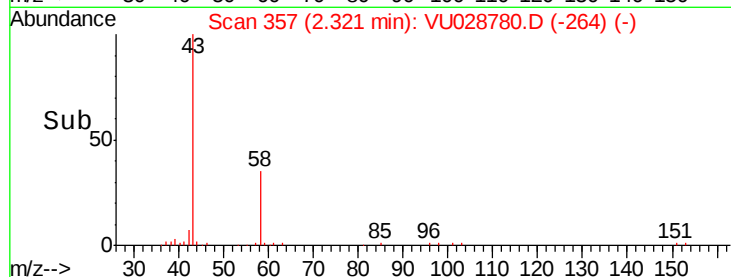
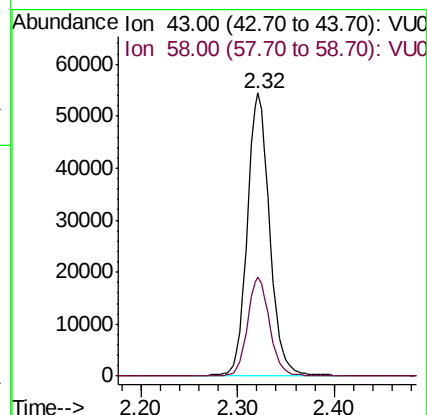
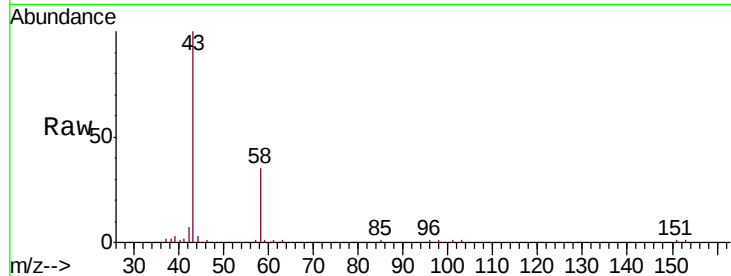
VSTD05046

Tgt Ion: 43 Resp: 87700

Ion Ratio Lower Upper

43 100

58 34.2 0.0 62.0



#14

Carbon disulfide

Concen: 46.427 ug/L

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU028780.D

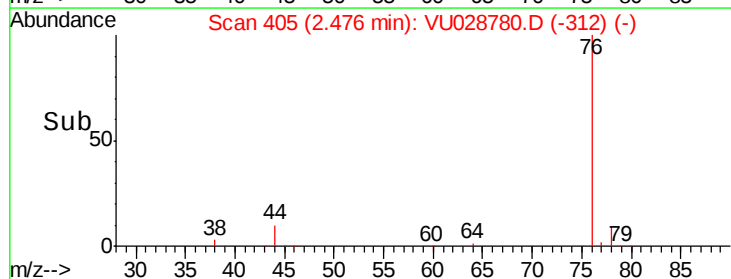
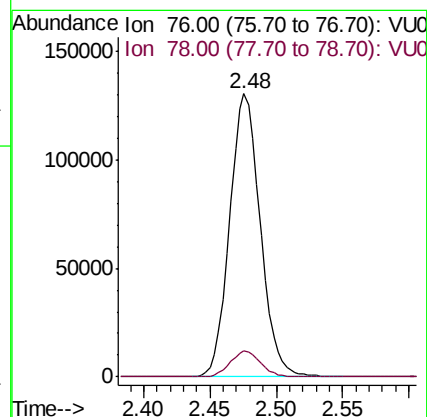
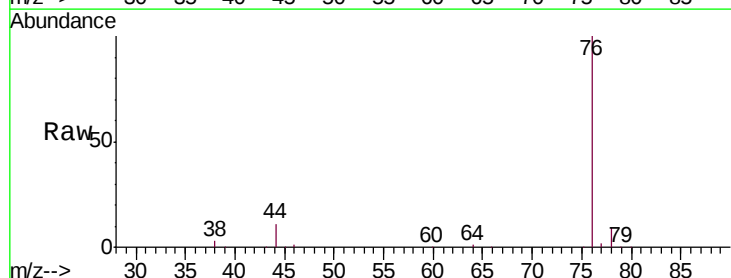
Acq: 18 Dec 2018 19:23

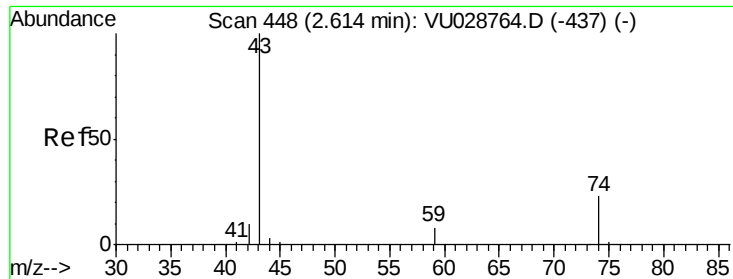
Tgt Ion: 76 Resp: 209584

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

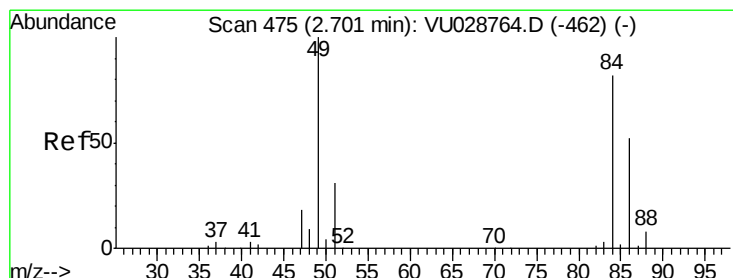
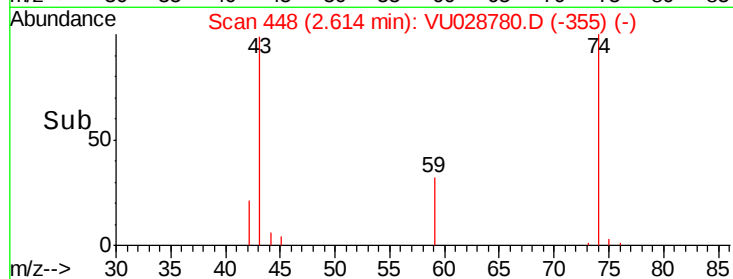
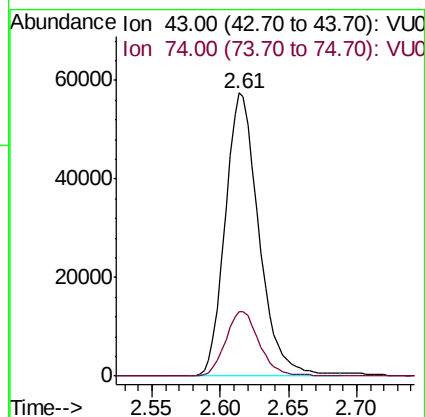
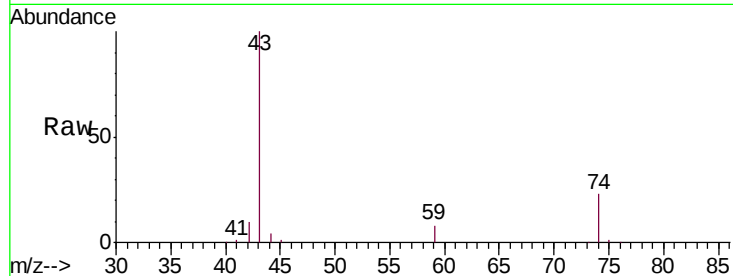




#15
Methyl Acetate
Concen: 45.722 ug/L
RT: 2.61 min Scan# 448
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

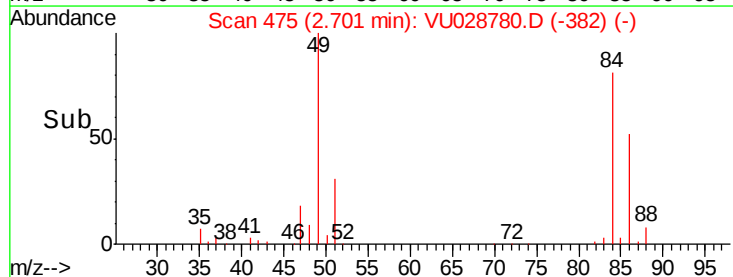
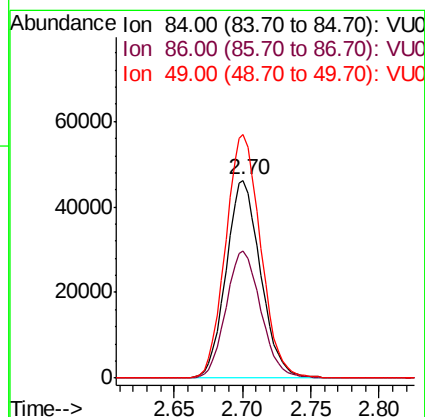
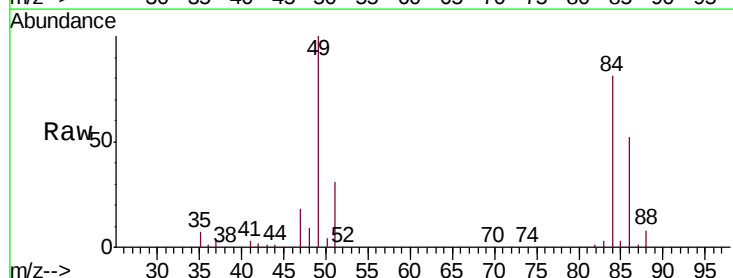
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

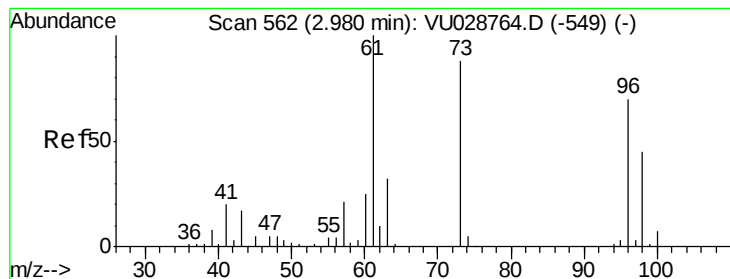
Tgt Ion: 43 Resp: 98694
Ion Ratio Lower Upper
43 100
74 22.9 15.4 23.0



#16
Methylene chloride
Concen: 51.097 ug/L
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

Tgt Ion: 84 Resp: 81291
Ion Ratio Lower Upper
84 100
86 64.1 44.3 82.3
49 123.0 100.0 185.6





#17

trans-1,2-Dichloroethene

Concen: 50.749 ug/L

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

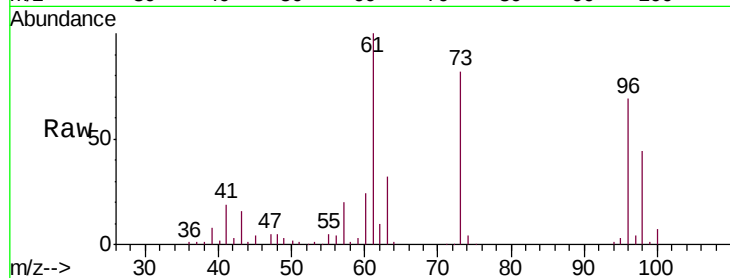
Tgt Ion: 96 Resp: 71607

Ion Ratio Lower Upper

96 100

61 145.3 112.8 209.4

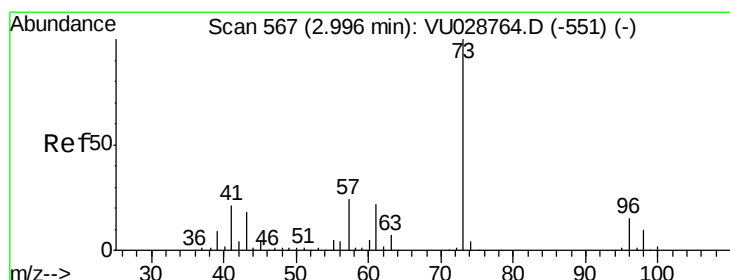
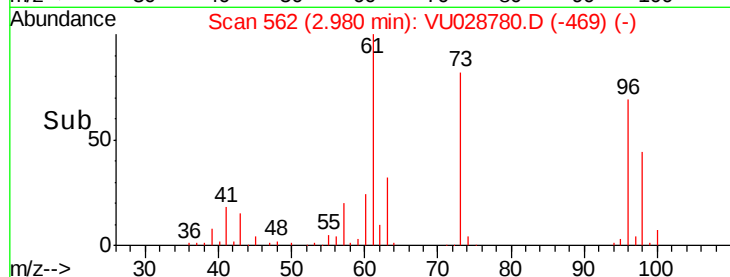
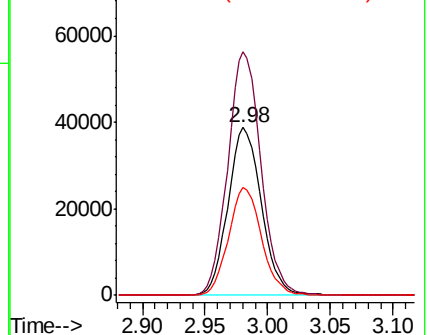
98 64.1 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU028764.D (-549) (-)

Ion 61.00 (60.70 to 61.70): VU028764.D (-549) (-)

Ion 98.00 (97.70 to 98.70): VU028764.D (-549) (-)



#18

Methyl tert-butyl Ether

Concen: 49.074 ug/L

RT: 3.00 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

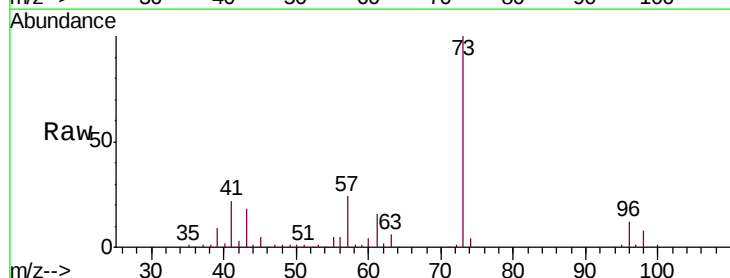
Tgt Ion: 73 Resp: 233262

Ion Ratio Lower Upper

73 100

43 18.8 18.1 27.1

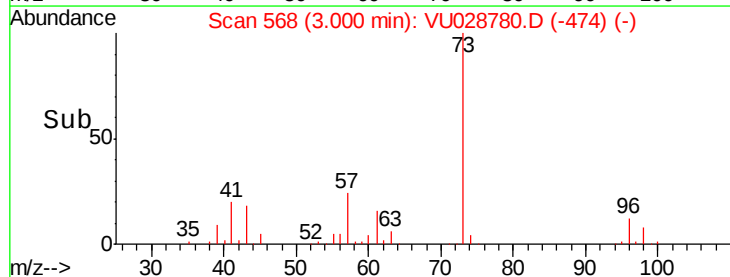
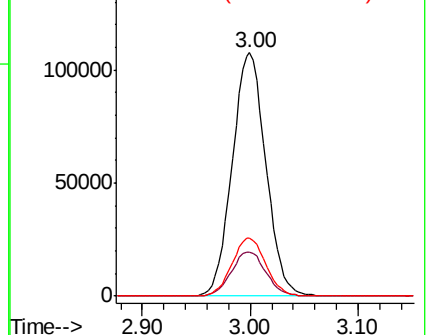
57 24.1 19.7 29.5

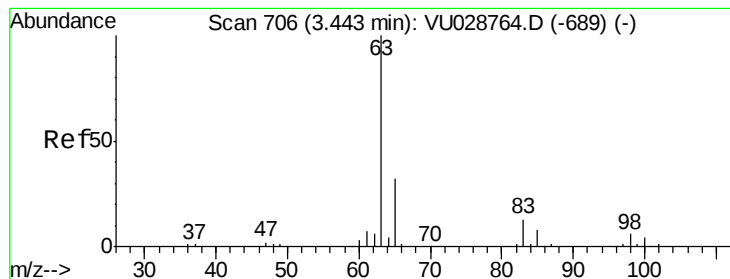


Abundance Ion 73.00 (72.70 to 73.70): VU028764.D (-551) (-)

Ion 43.00 (42.70 to 43.70): VU028764.D (-551) (-)

Ion 57.00 (56.70 to 57.70): VU028764.D (-551) (-)





#19

1,1-Dichloroethane

Concen: 49.285 ug/L

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

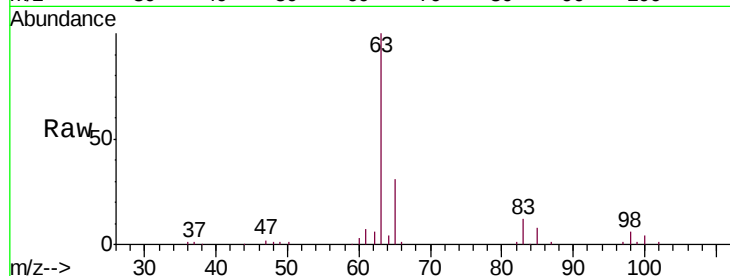
Tgt Ion: 63 Resp: 147415

Ion Ratio Lower Upper

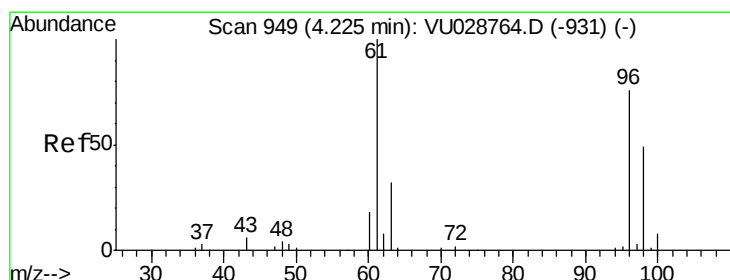
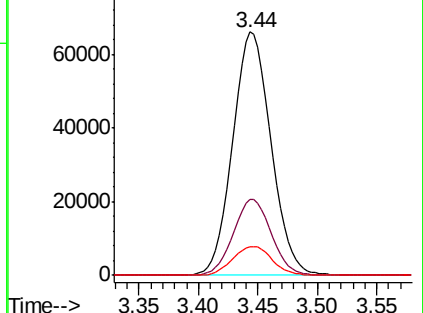
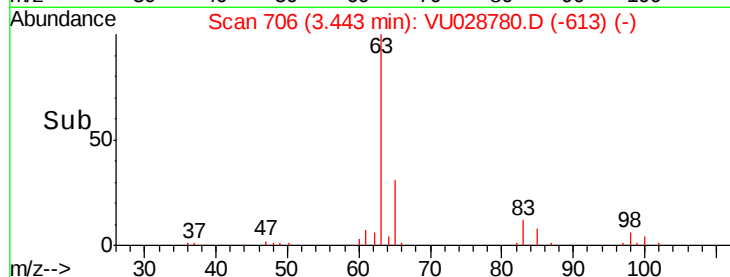
63 100

65 31.3 21.8 40.4

83 11.8 8.5 15.7



Abundance Ion 63.00 (62.70 to 63.70): VU028780.D (-613) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.260 ug/L

RT: 4.22 min Scan# 949

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

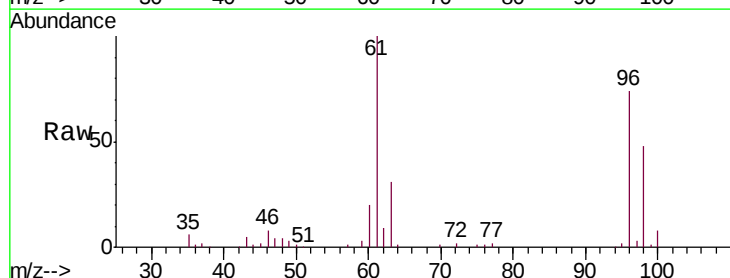
Tgt Ion: 96 Resp: 83632

Ion Ratio Lower Upper

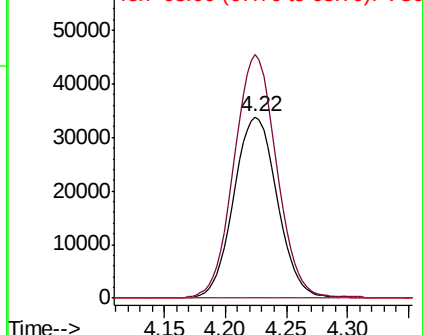
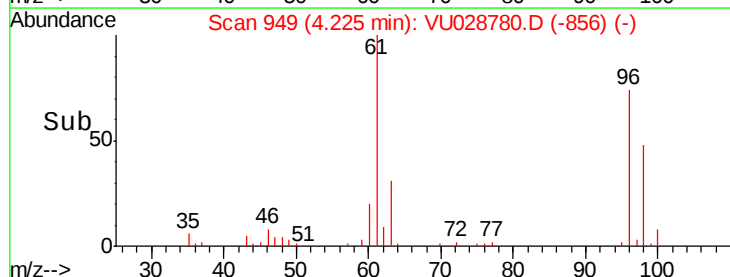
96 100

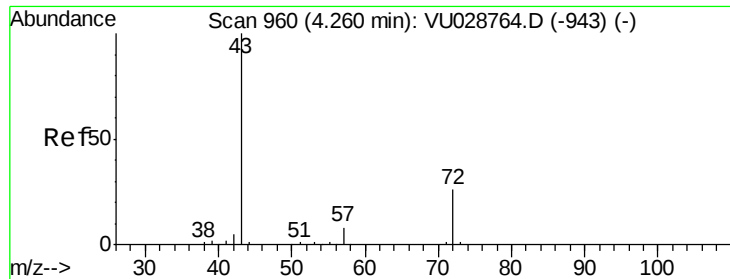
61 134.5 100.1 185.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU028780.D (-856) (-)

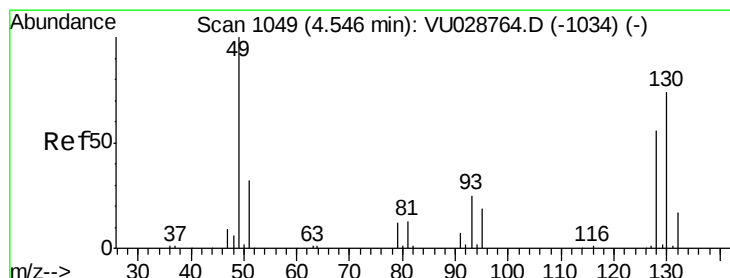
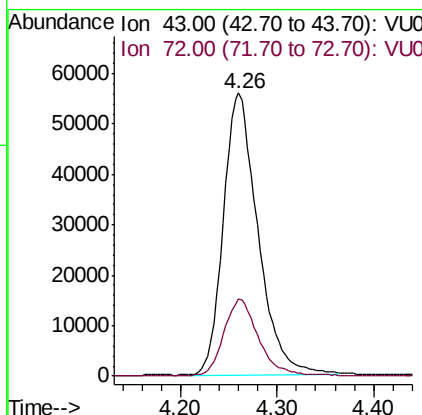
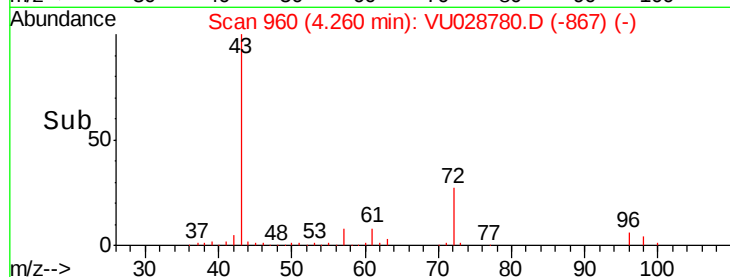
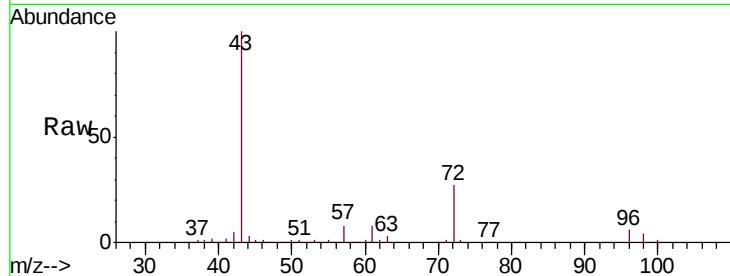




#22
 2-Butanone
 Concen: 76.105 ug/L
 RT: 4.26 min Scan# 960
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

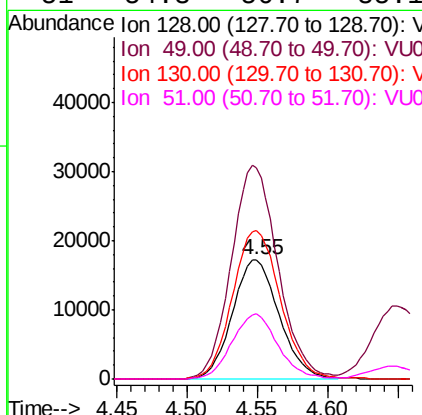
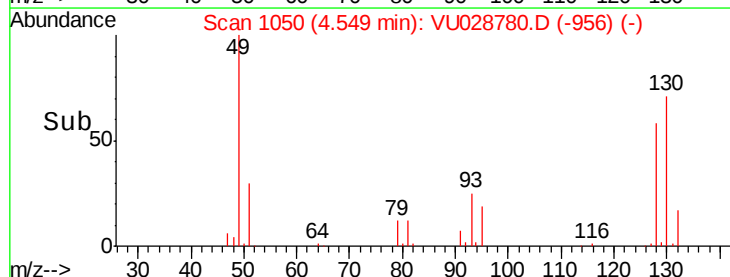
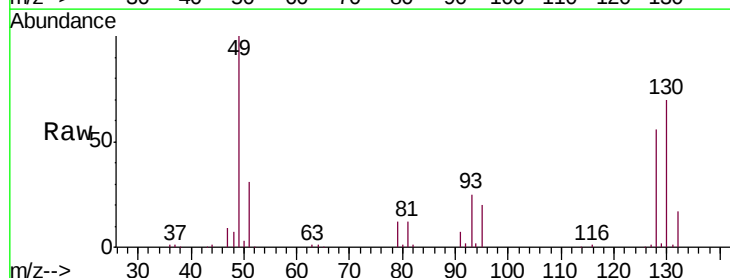
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

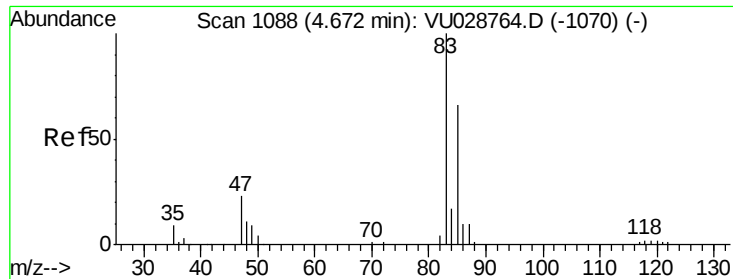
Tgt Ion: 43 Resp: 139162
 Ion Ratio Lower Upper
 43 100
 72 27.5 11.9 35.5



#23
 Bromochloromethane
 Concen: 55.993 ug/L
 RT: 4.55 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Tgt Ion: 128 Resp: 40012
 Ion Ratio Lower Upper
 128 100
 49 177.2 150.8 280.1
 130 123.9 90.9 168.7
 51 54.3 56.7 85.1#

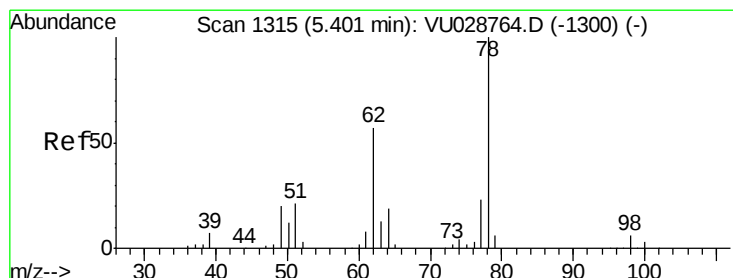
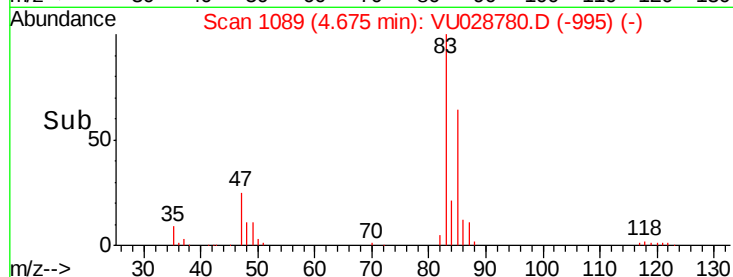
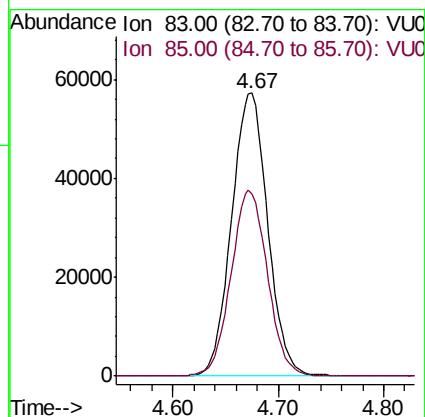
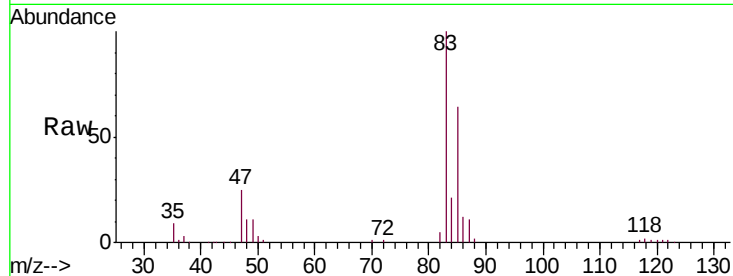




#25
Chloroform
Concen: 49.437 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

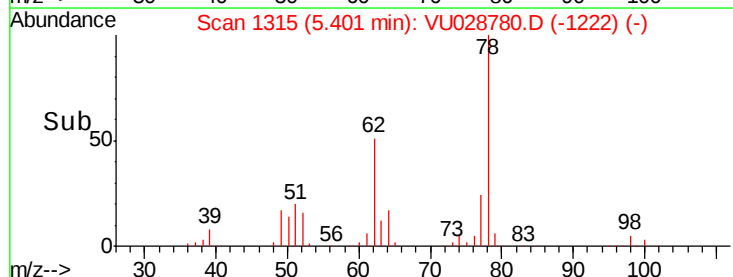
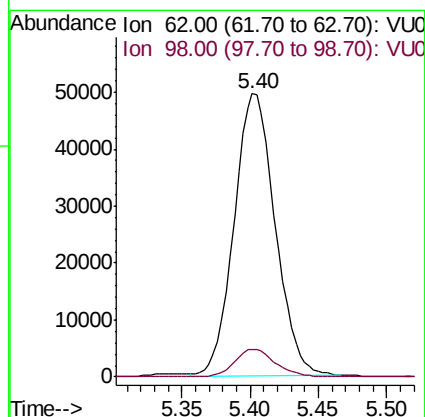
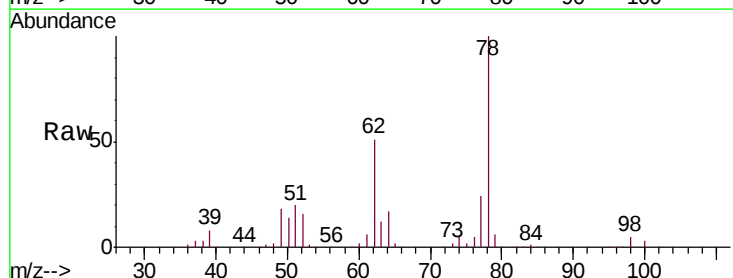
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

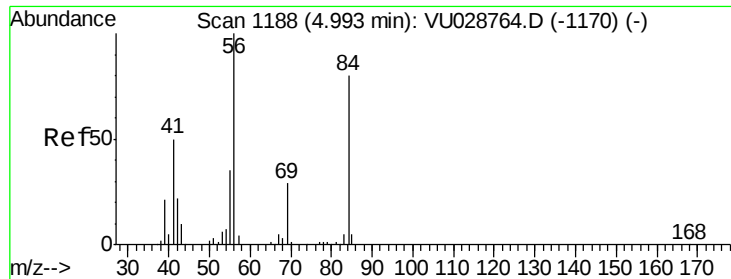
Tgt Ion: 83 Resp: 136171
Ion Ratio Lower Upper
83 100
85 64.5 46.0 85.4



#27
1,2-Dichloroethane
Concen: 45.458 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

Tgt Ion: 62 Resp: 103496
Ion Ratio Lower Upper
62 100
98 9.9 6.7 10.1

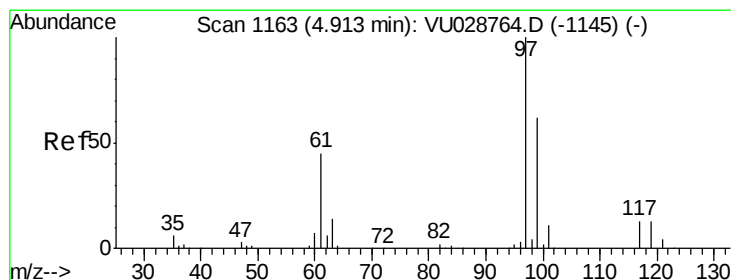
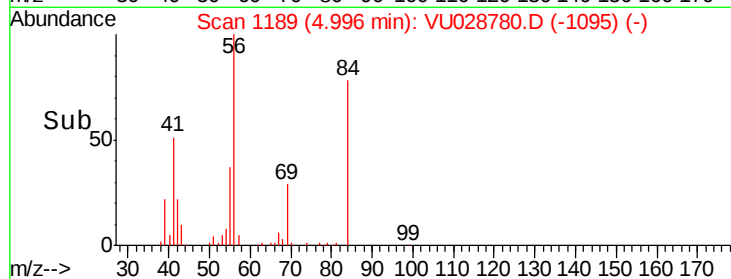
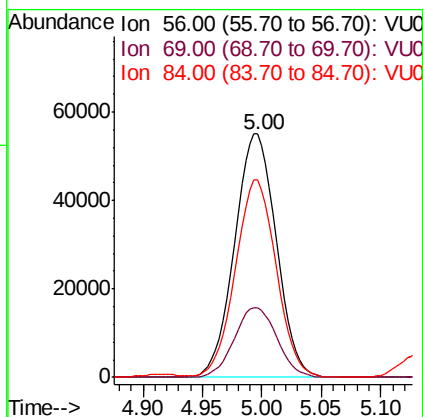
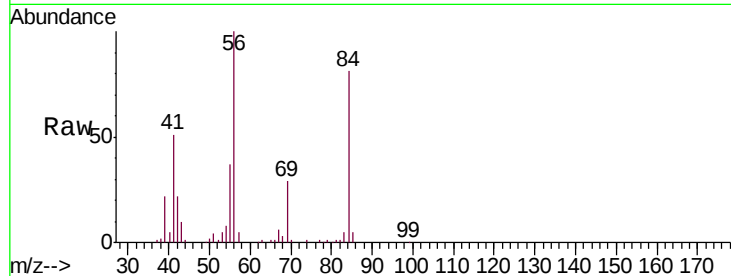




#29
Cyclohexane
Concen: 46.108 ug/L
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

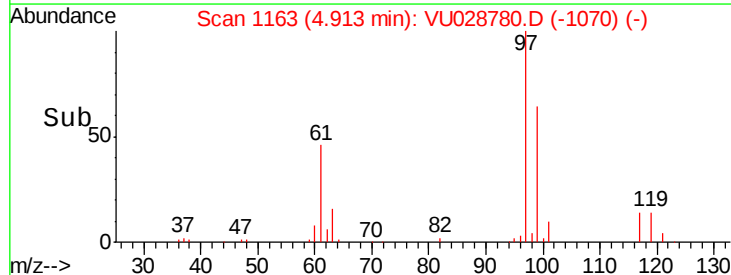
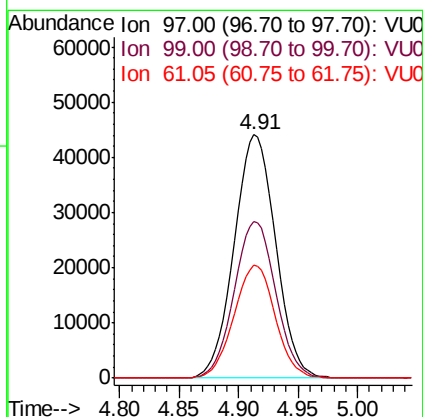
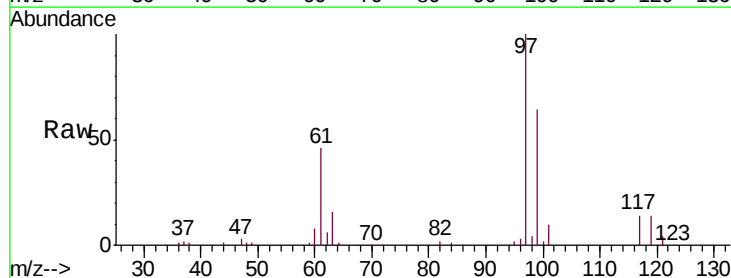
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

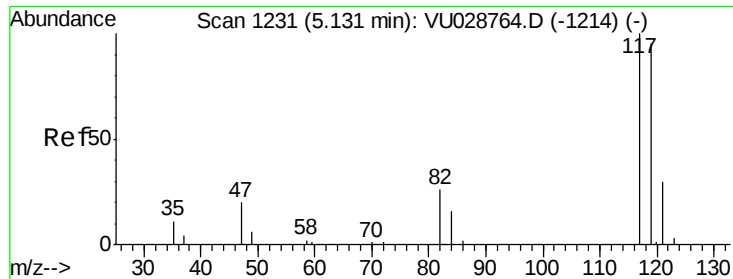
Tgt Ion: 56 Resp: 133593
Ion Ratio Lower Upper
56 100
69 29.3 22.2 33.2
84 79.8 57.5 86.3



#30
1,1,1-Trichloroethane
Concen: 49.055 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

Tgt Ion: 97 Resp: 106619
Ion Ratio Lower Upper
97 100
99 64.5 51.4 77.0
61 46.1 38.7 58.1





#31

Carbon tetrachloride

Concen: 48.368 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

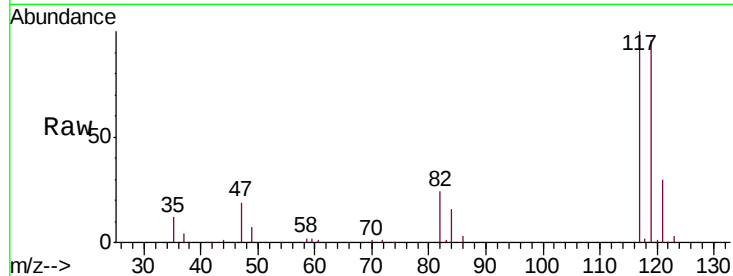
VSTD05046

Tgt Ion:117 Resp: 85049

Ion Ratio Lower Upper

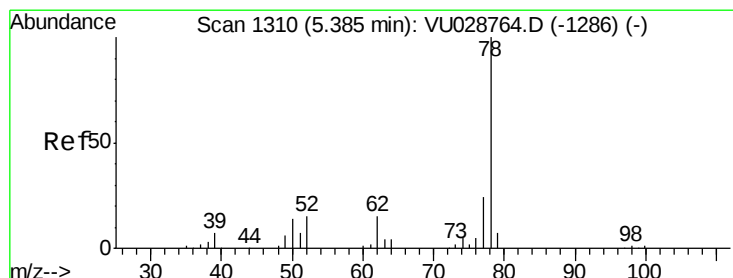
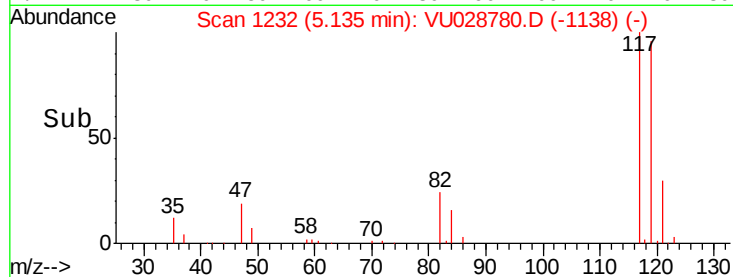
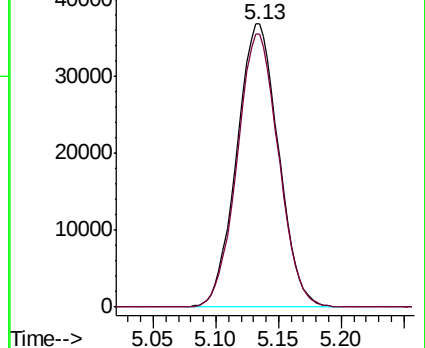
117 100

119 95.5 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.786 ug/L

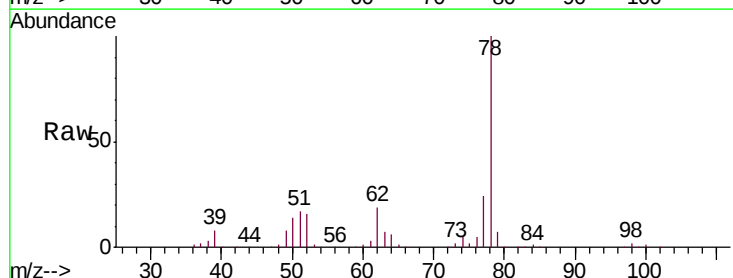
RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

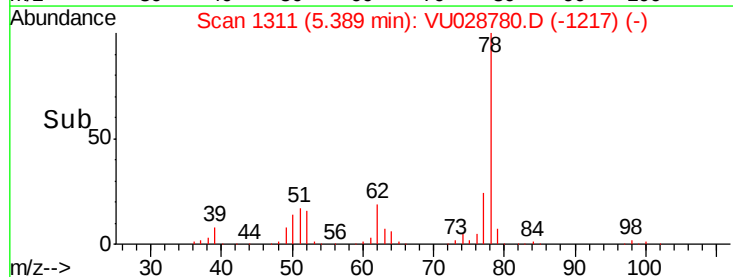
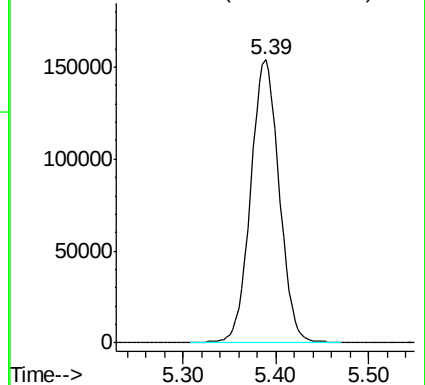
Lab File: VU028780.D

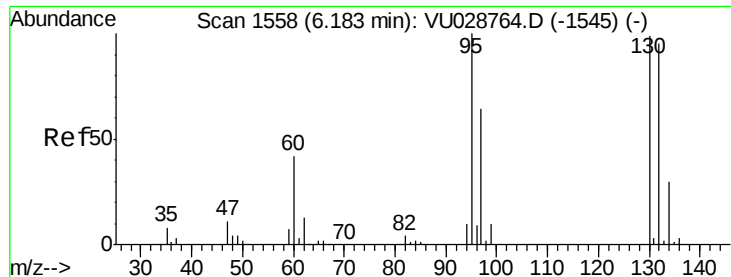
Acq: 18 Dec 2018 19:23

Tgt Ion: 78 Resp: 329641



Abundance Ion 78.00 (77.70 to 78.70): VU0

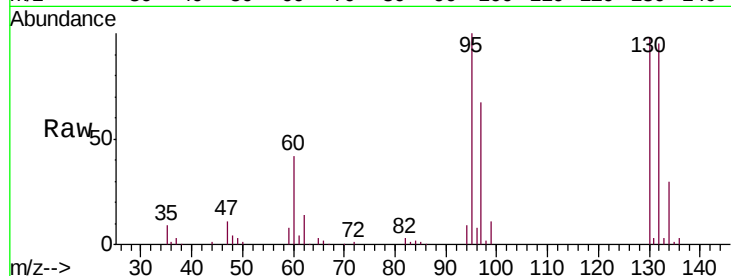




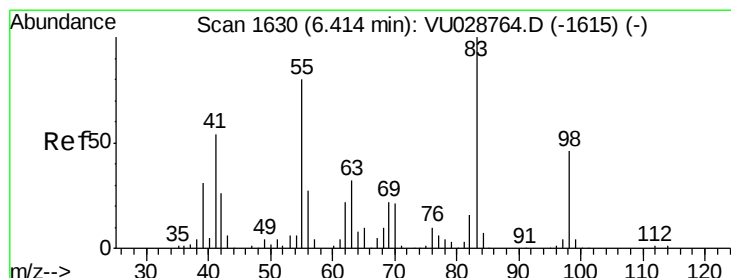
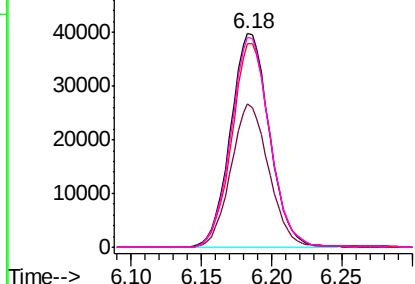
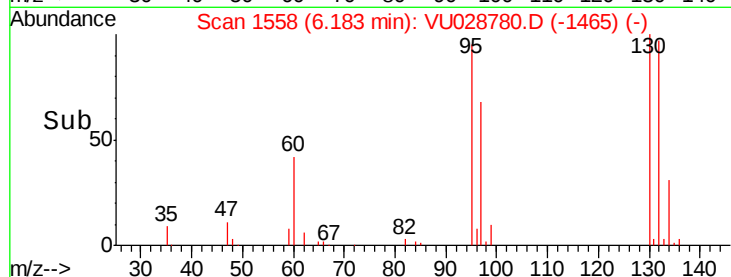
#34
 Trichloroethene
 Concen: 50.606 ug/L
 RT: 6.18 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion: 95 Resp: 76759
 Ion Ratio Lower Upper
 95 100
 97 66.9 43.5 80.9
 132 95.0 59.6 110.6
 130 98.1 61.8 114.8

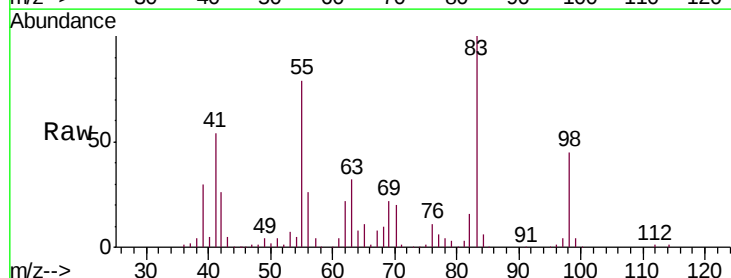


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

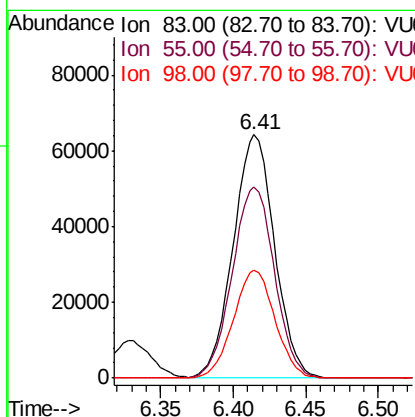
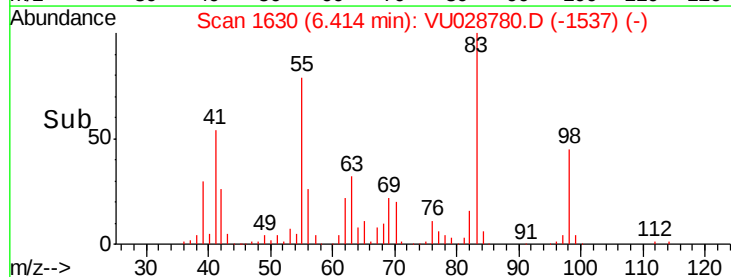


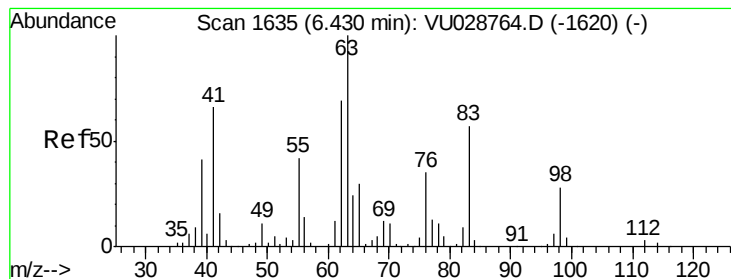
#35
 Methylcyclohexane
 Concen: 49.930 ug/L
 RT: 6.41 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Tgt Ion: 83 Resp: 127682
 Ion Ratio Lower Upper
 83 100
 55 80.0 70.1 105.1
 98 44.5 34.4 51.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 50.390 ug/L

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

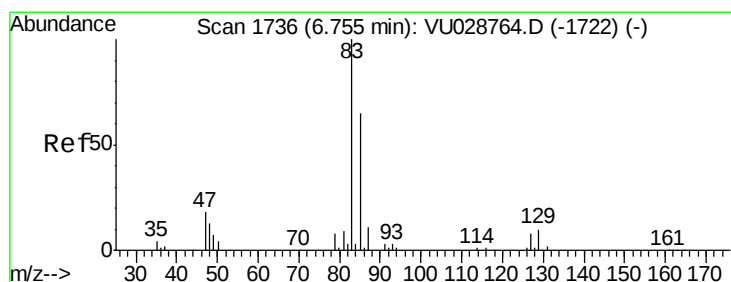
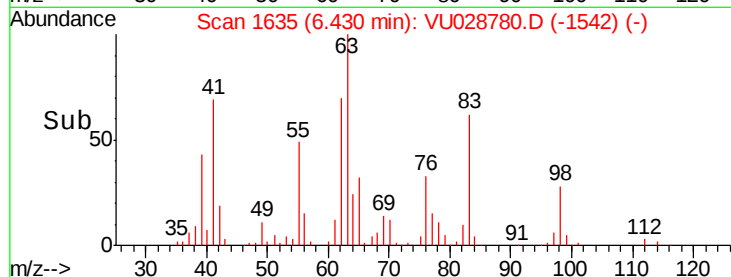
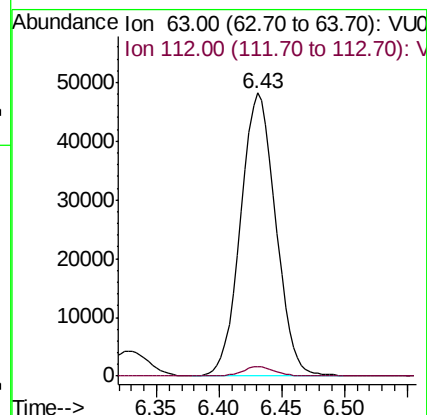
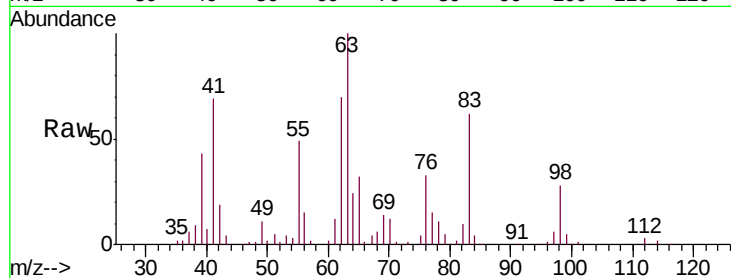
VSTD05046

Tgt Ion: 63 Resp: 94068

Ion Ratio Lower Upper

63 100

112 3.0 2.4 3.6



#38

Bromodichloromethane

Concen: 49.393 ug/L

RT: 6.76 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

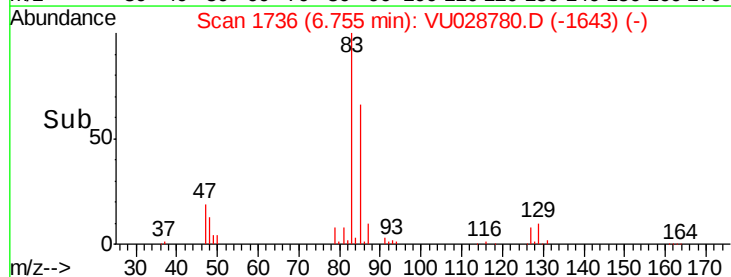
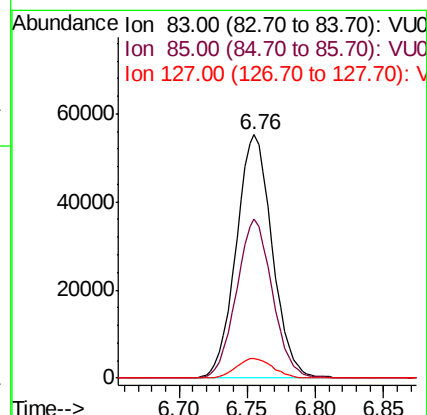
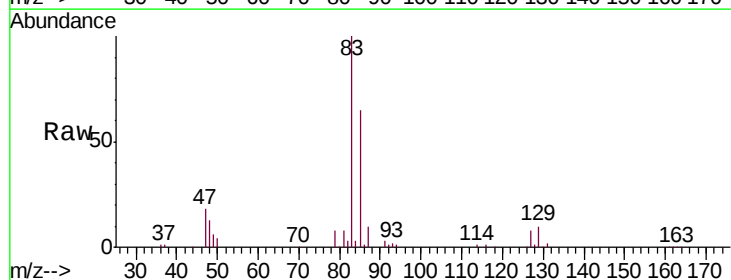
Tgt Ion: 83 Resp: 101403

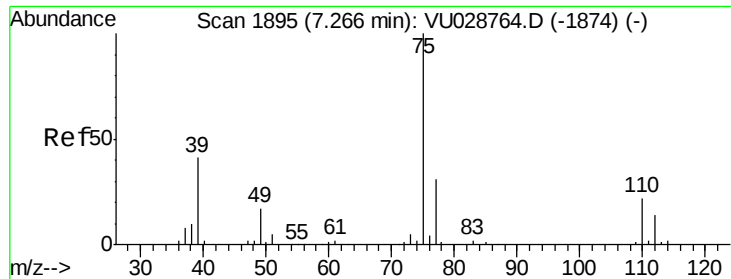
Ion Ratio Lower Upper

83 100

85 65.1 46.5 86.3

127 8.0 6.3 9.5

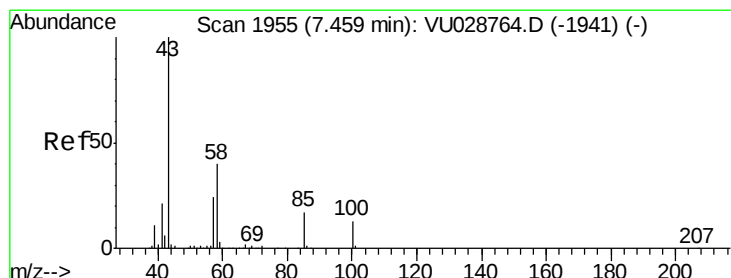
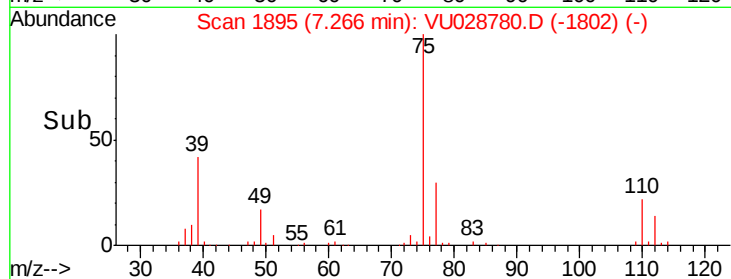
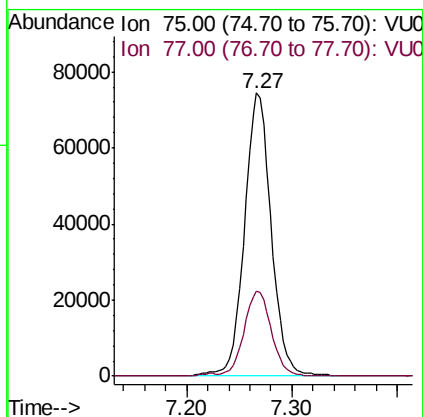
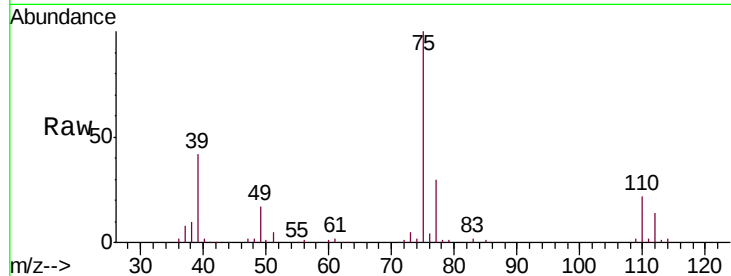




#39
 cis-1,3-Dichloropropene
 Concen: 49.487 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

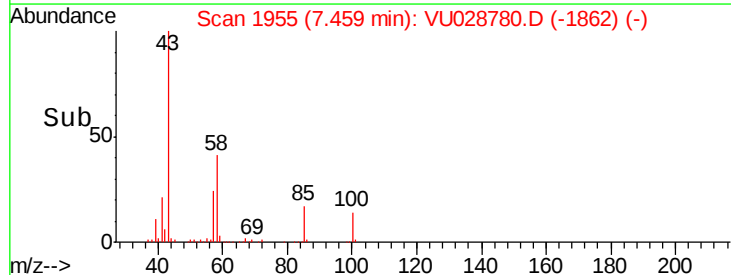
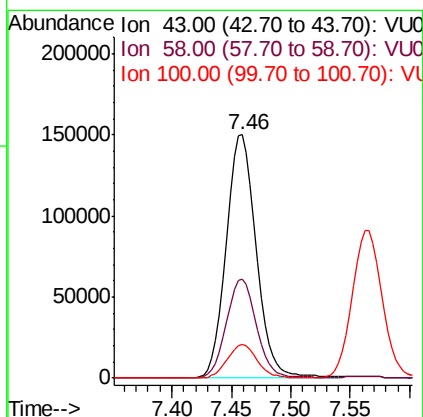
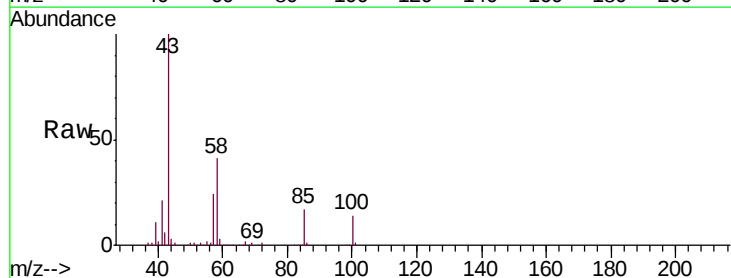
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

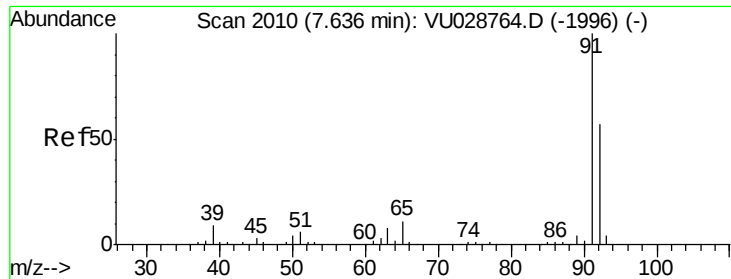
Tgt Ion: 75 Resp: 131113
 Ion Ratio Lower Upper
 75 100
 77 29.9 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 92.790 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Tgt Ion: 43 Resp: 263774
 Ion Ratio Lower Upper
 43 100
 58 41.0 29.6 44.4
 100 13.8 9.0 13.4#





#42

Toluene

Concen: 52.940 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

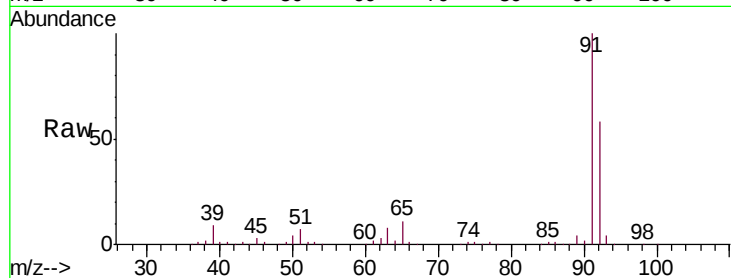
VSTD05046

Tgt Ion: 91 Resp: 335850

Ion Ratio Lower Upper

91 100

92 57.7 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

200000

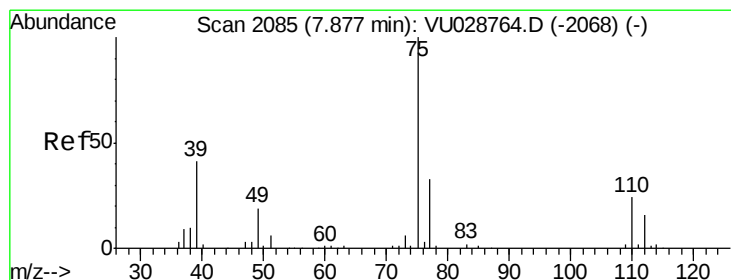
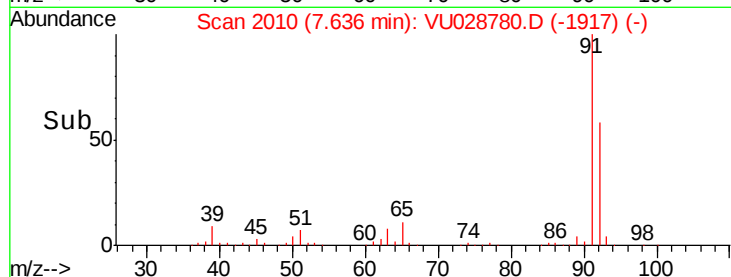
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.017 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028780.D

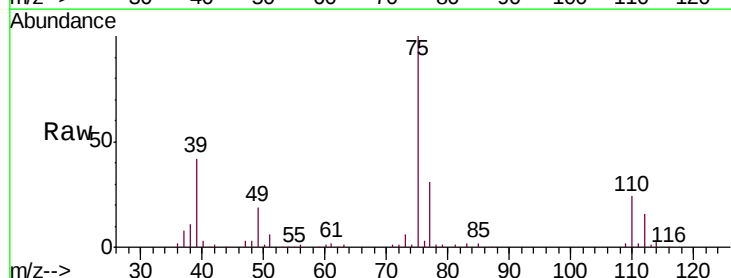
Acq: 18 Dec 2018 19:23

Tgt Ion: 75 Resp: 117344

Ion Ratio Lower Upper

75 100

77 31.0 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

80000

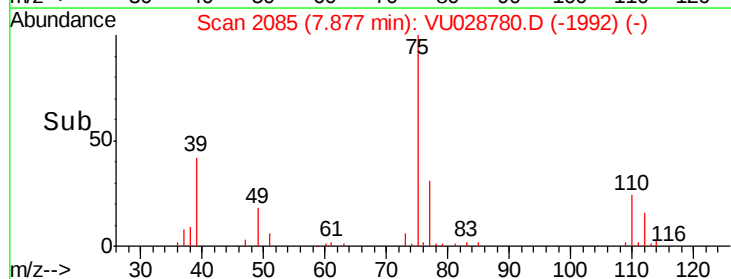
60000

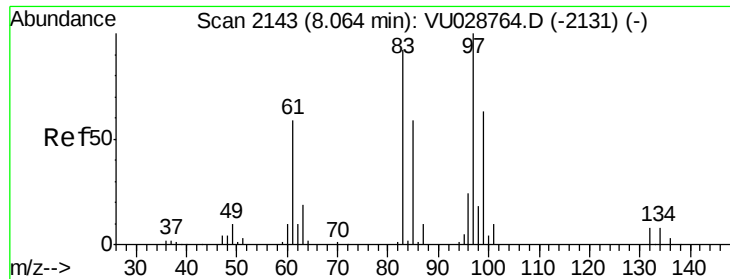
40000

20000

0

Time-->

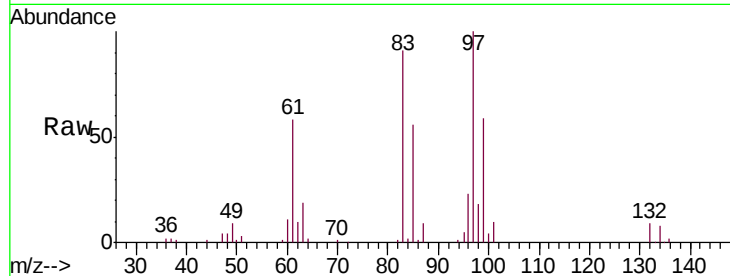




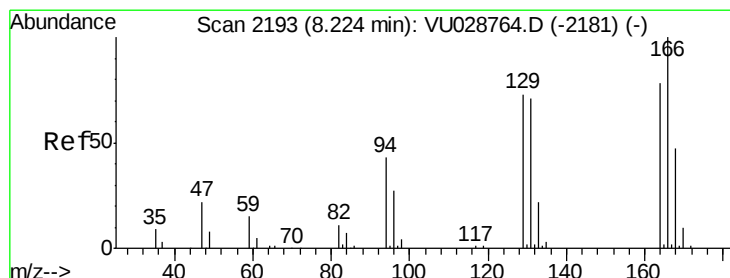
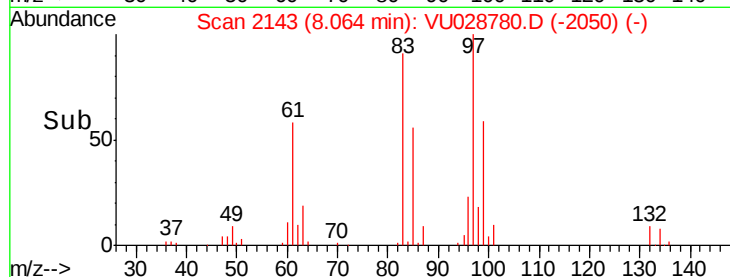
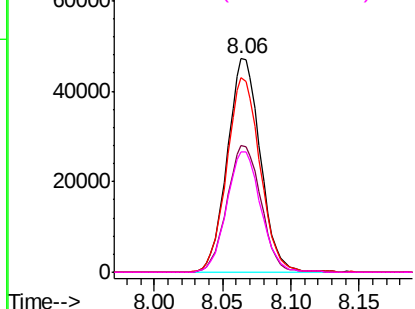
#45
 1,1,2-Trichloroethane
 Concen: 54.390 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	97	Resp:	79565
Ion	Ratio	Lower	Upper
97	100		
99	59.4	44.2	82.2
83	91.0	66.0	122.6
85	56.4	42.5	78.9

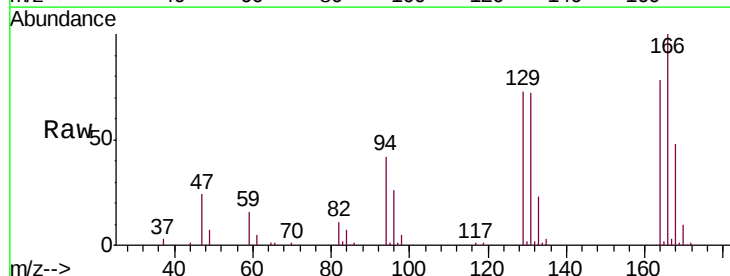


Abundance Ion 97.00 (96.70 to 97.70): VU028780.D (-2131) (-)
 Ion 99.00 (98.70 to 99.70): VU028780.D (-2131) (-)
 Ion 83.00 (82.70 to 83.70): VU028780.D (-2131) (-)
 Ion 85.00 (84.70 to 85.70): VU028780.D (-2131) (-)

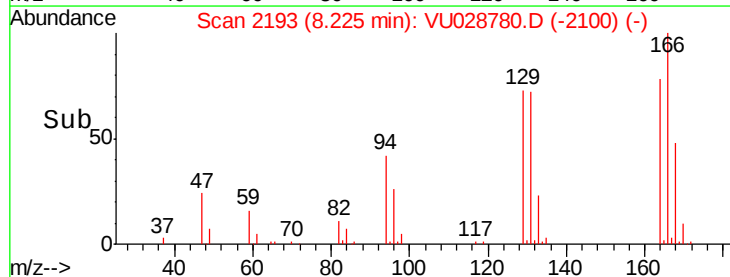
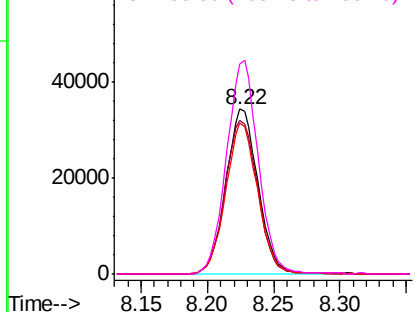


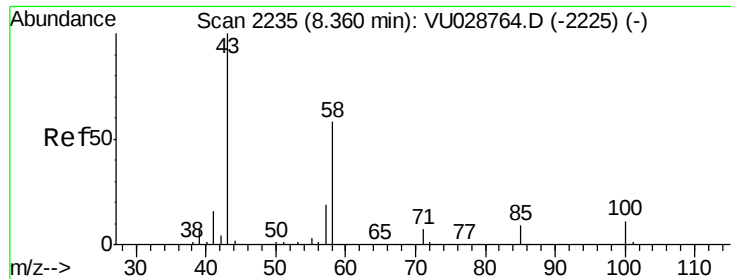
#46
 Tetrachloroethene
 Concen: 54.027 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Tgt Ion:	164	Resp:	57984
Ion	Ratio	Lower	Upper
164	100		
129	92.9	68.2	126.6
131	91.6	66.1	122.7
166	127.4	88.3	163.9



Abundance Ion 164.00 (163.70 to 164.70): VU028780.D (-2193) (-)
 Ion 129.00 (128.70 to 129.70): VU028780.D (-2193) (-)
 Ion 131.00 (130.70 to 131.70): VU028780.D (-2193) (-)
 Ion 166.00 (165.70 to 166.70): VU028780.D (-2193) (-)

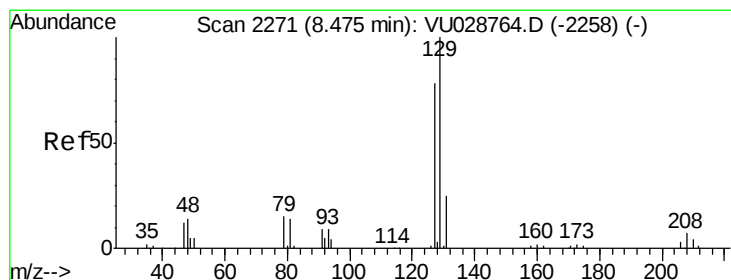
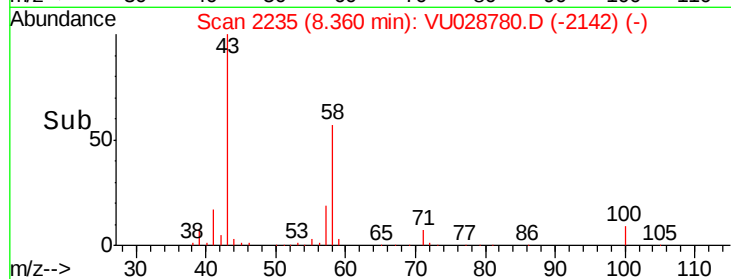
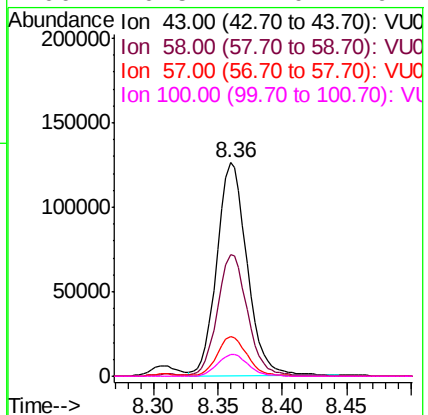
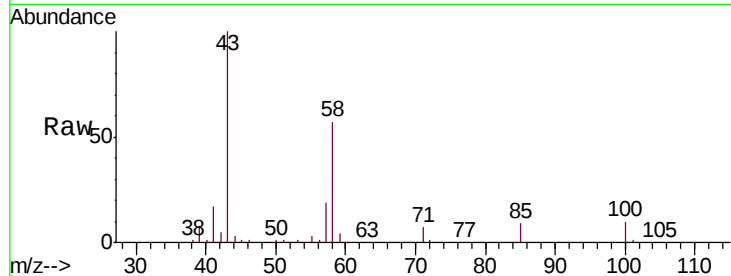




#48
2-Hexanone
Concen: 85.535 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

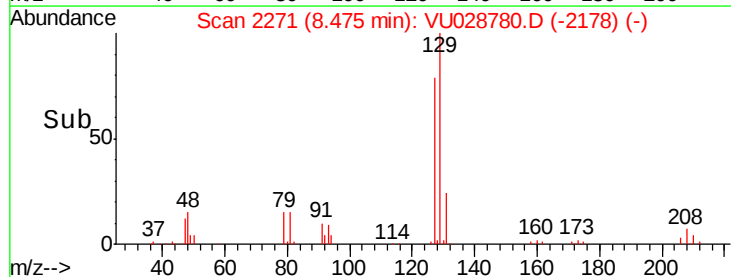
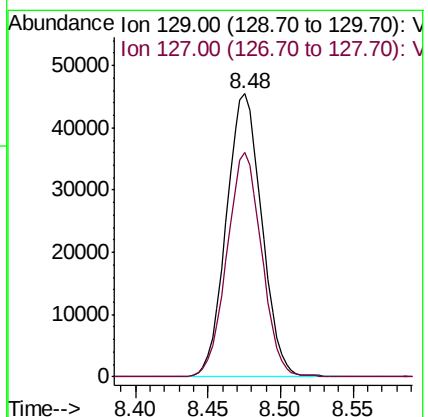
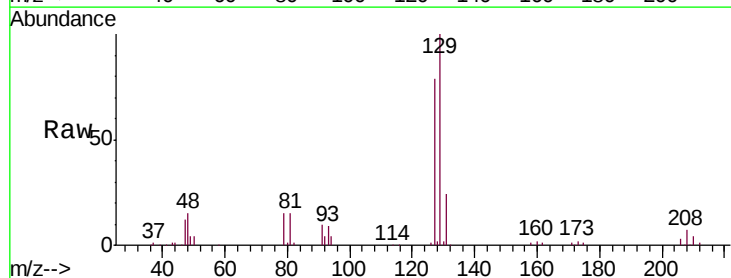
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

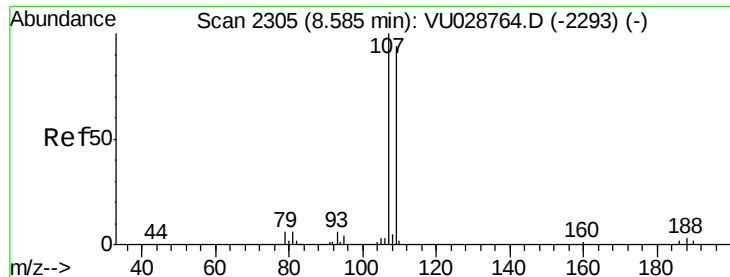
Tgt Ion:	43	Resp:	205744
Ion	Ratio	Lower	Upper
43	100		
58	57.1	41.6	62.4
57	18.6	13.8	20.6
100	10.5	7.0	10.4



#49
Dibromochloromethane
Concen: 52.226 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

Tgt Ion:	129	Resp:	77285
Ion	Ratio	Lower	Upper
129	100		
127	79.4	54.0	100.2

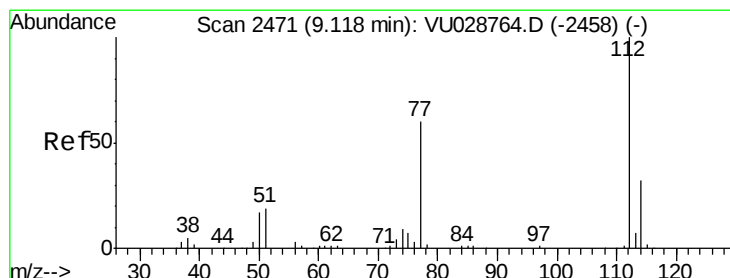
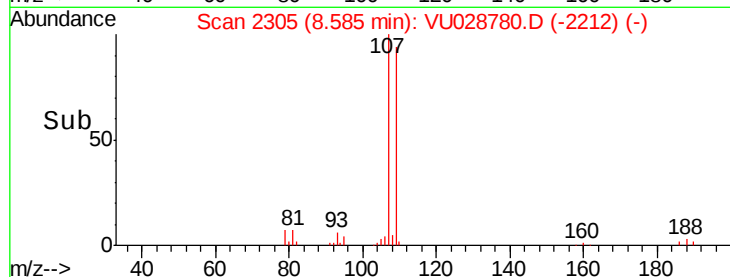
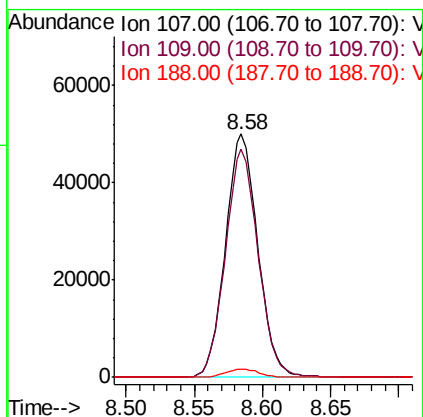
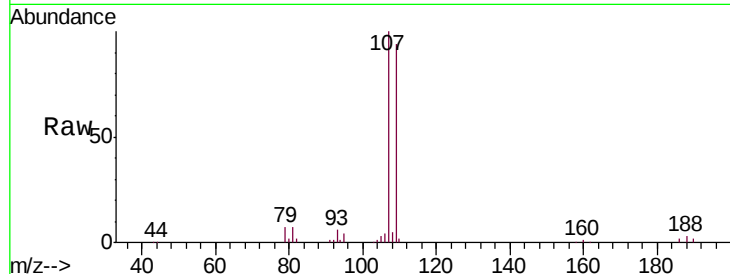




#50
1,2-Dibromoethane
Concen: 53.893 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

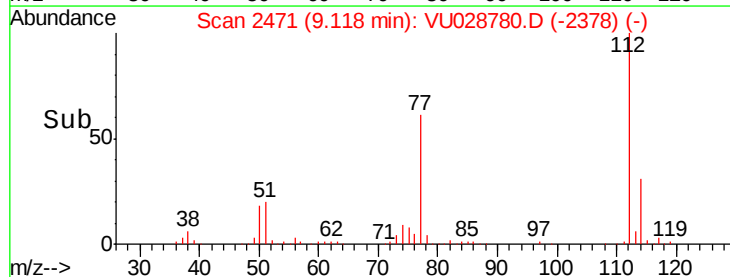
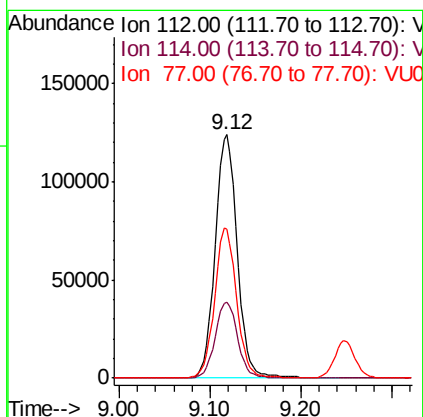
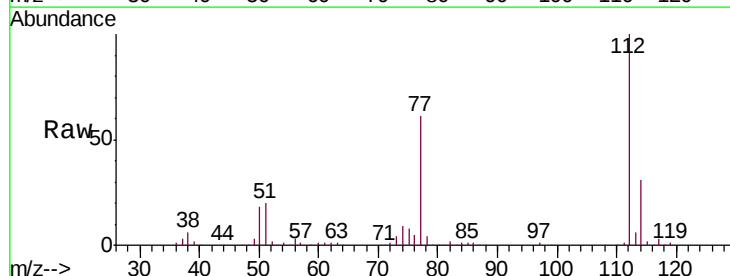
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

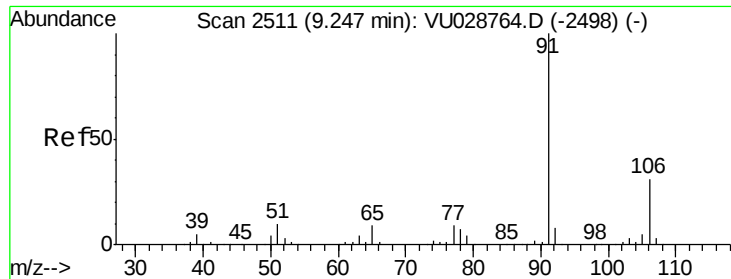
Tgt Ion:107 Resp: 82683
Ion Ratio Lower Upper
107 100
109 93.6 64.5 119.9
188 3.2 2.6 3.8



#51
Chlorobenzene
Concen: 54.538 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

Tgt Ion:112 Resp: 208432
Ion Ratio Lower Upper
112 100
114 31.4 23.0 42.6
77 61.3 53.9 80.9





#52

Ethylbenzene

Concen: 50.994 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

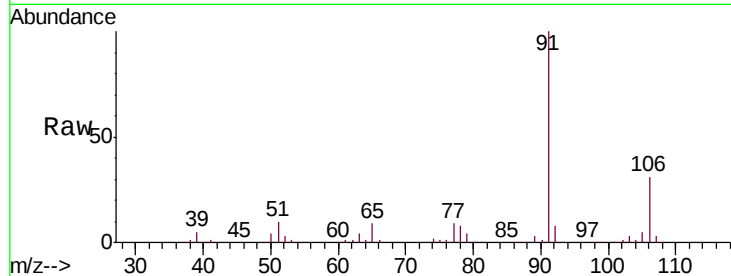
VSTD05046

Tgt Ion: 91 Resp: 358142

Ion Ratio Lower Upper

91 100

106 31.1 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VU028764.D (-2498) (-)

Ion 106.00 (105.70 to 106.70): VU028764.D (-2498) (-)

9.25

200000

150000

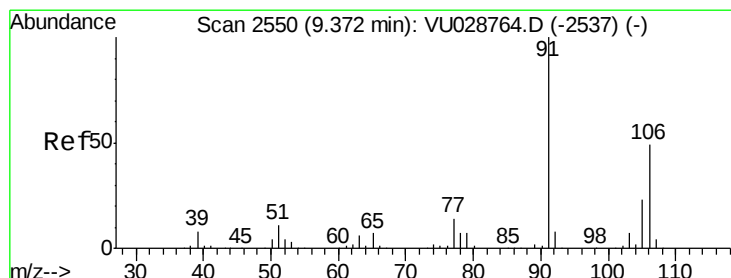
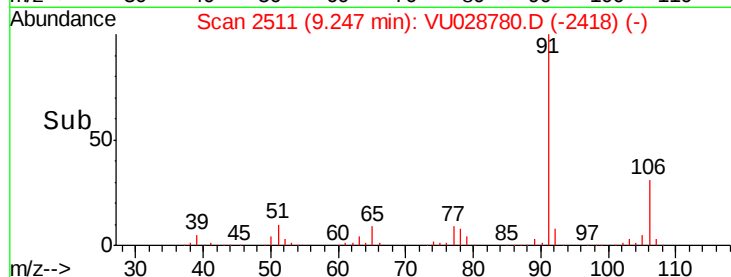
100000

50000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 52.436 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028780.D

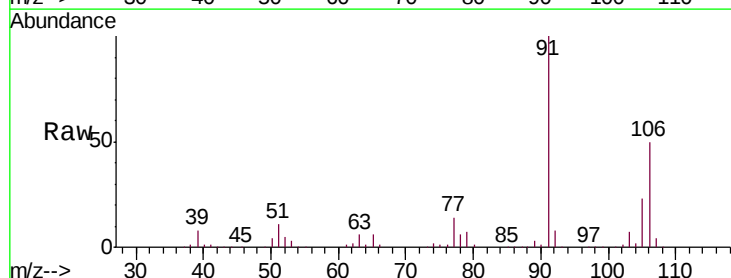
Acq: 18 Dec 2018 19:23

Tgt Ion: 106 Resp: 133315

Ion Ratio Lower Upper

106 100

91 199.5 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU028764.D (-2537) (-)

Ion 91.00 (90.70 to 91.70): VU028764.D (-2537) (-)

9.37

150000

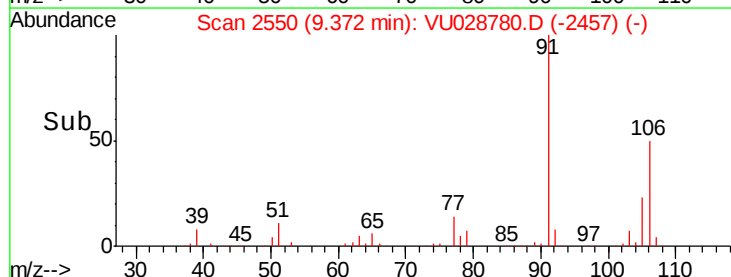
100000

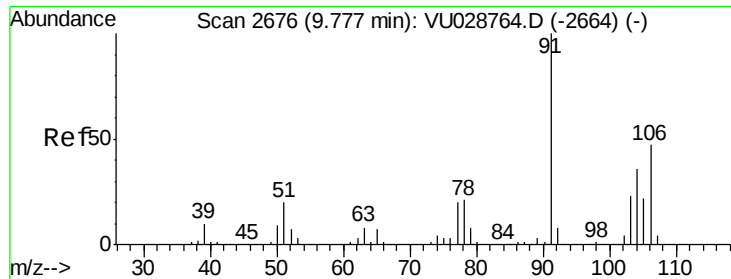
50000

0

9.30 9.35 9.40 9.45

Time-->

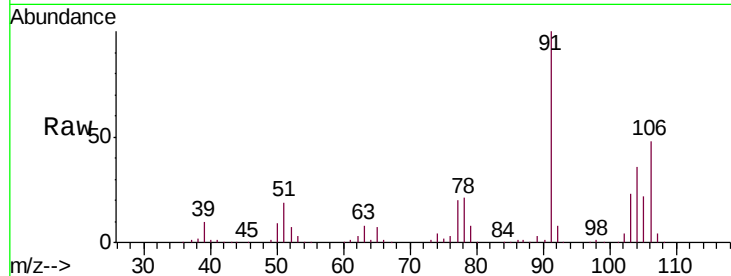




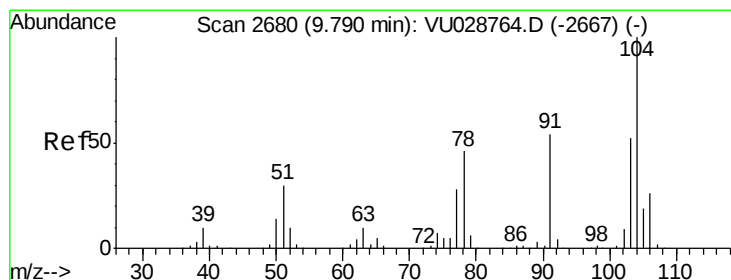
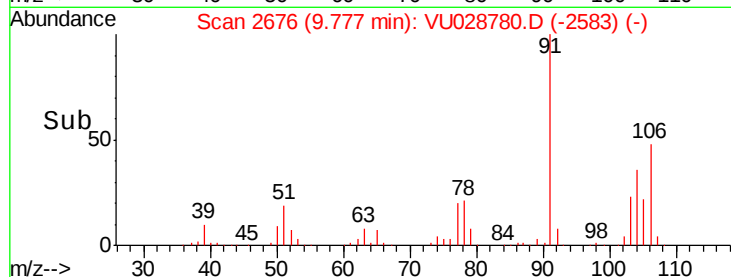
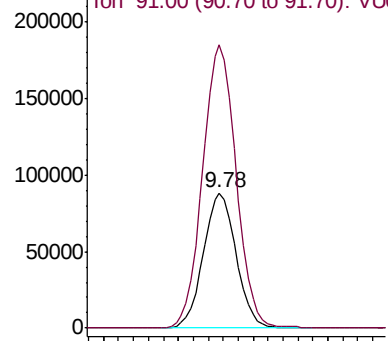
#54
o-xylene
Concen: 53.954 ug/L
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

Tgt Ion:106 Resp: 134700
Ion Ratio Lower Upper
106 100
91 209.7 151.4 281.2

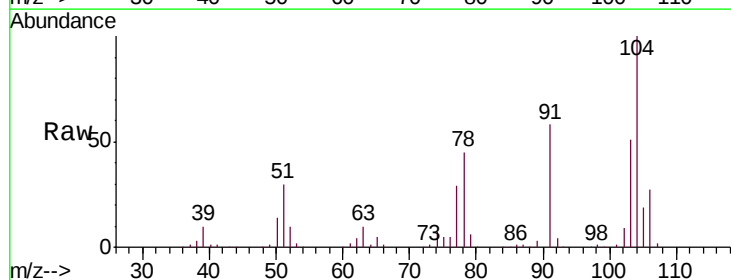


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

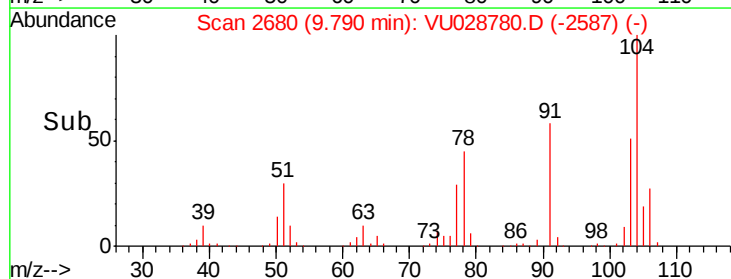
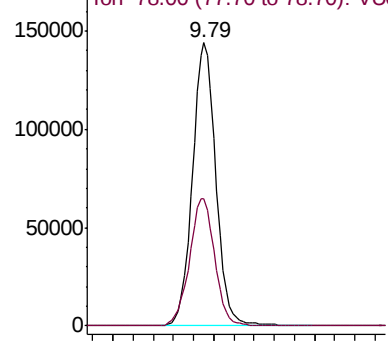


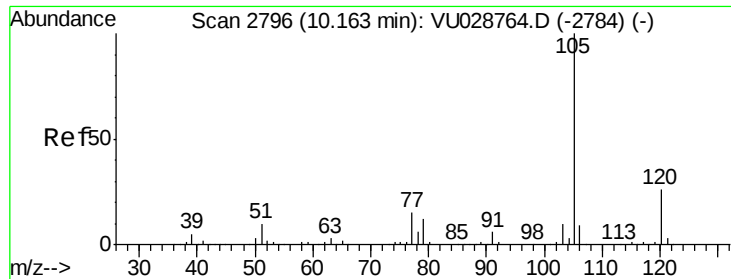
#55
Styrene
Concen: 55.027 ug/L
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028780.D
Acq: 18 Dec 2018 19:23

Tgt Ion:104 Resp: 233258
Ion Ratio Lower Upper
104 100
78 44.7 34.1 63.3



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.192 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

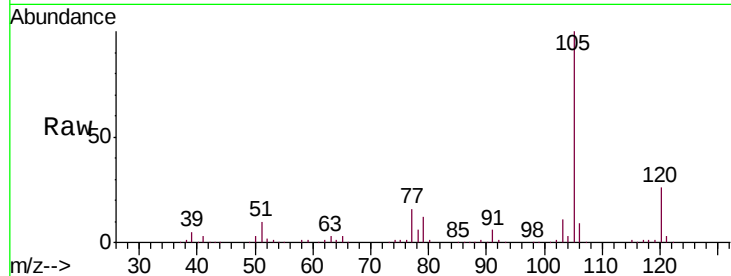
Tgt Ion: 105 Resp: 339651

Ion Ratio Lower Upper

105 100

120 26.5 20.2 30.2

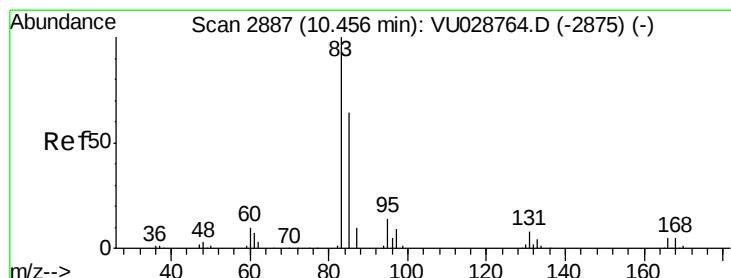
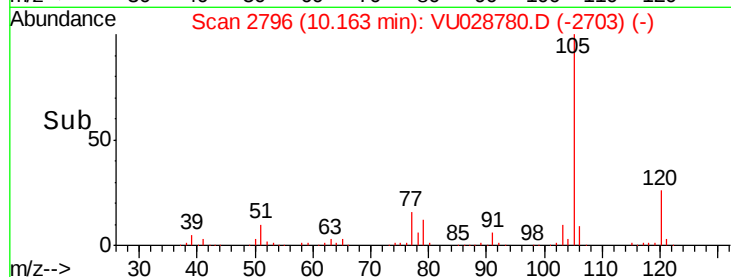
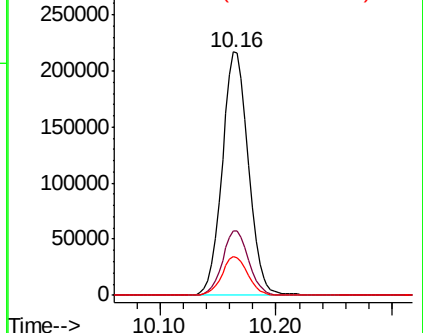
77 15.8 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 53.629 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

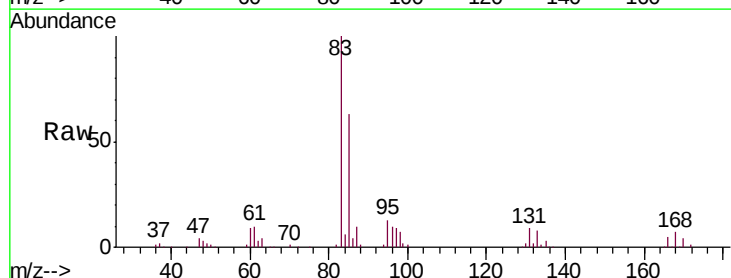
Tgt Ion: 83 Resp: 144094

Ion Ratio Lower Upper

83 100

85 63.5 45.1 83.7

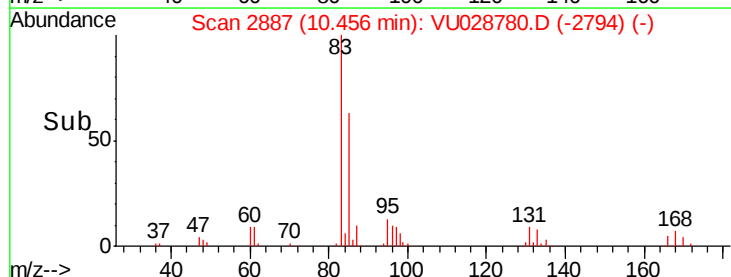
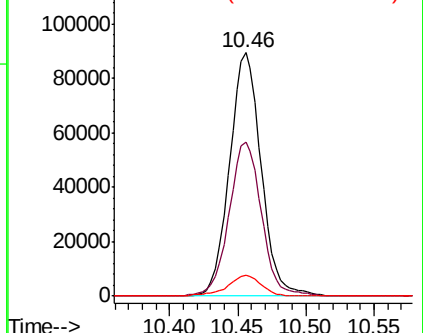
131 8.5 6.4 9.6

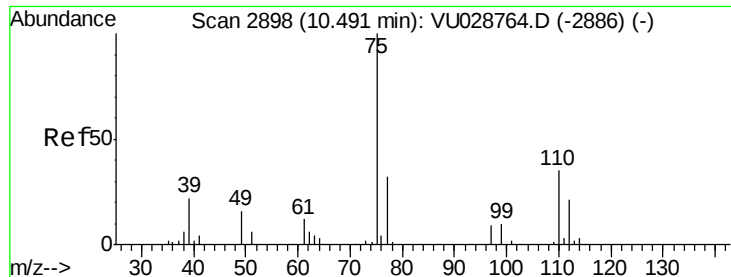


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

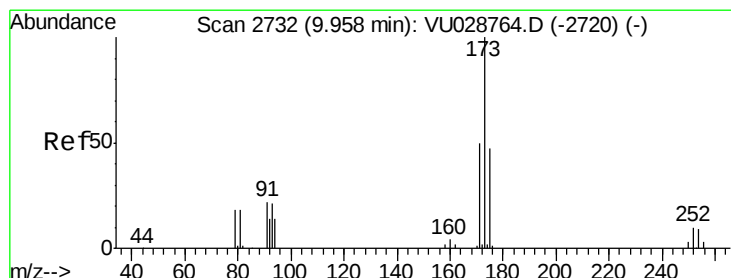
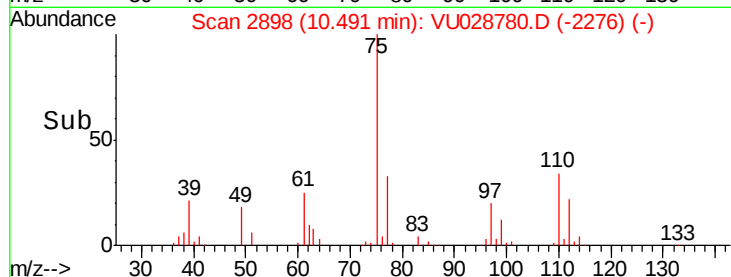
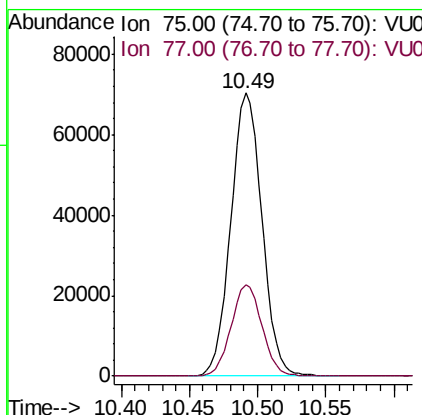
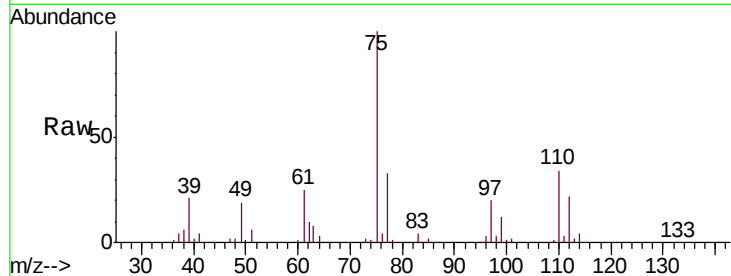




#59
 1,2,3-Trichloropropane
 Concen: 52.900 ug/L
 RT: 10.49 min Scan# 2898
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

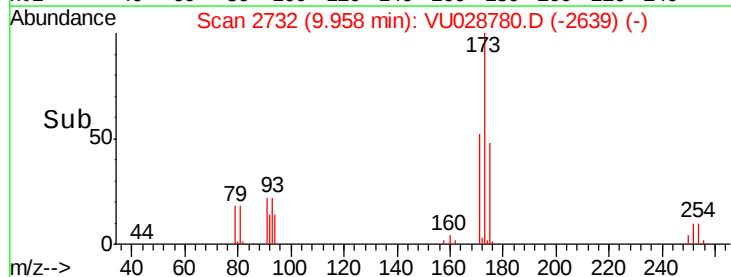
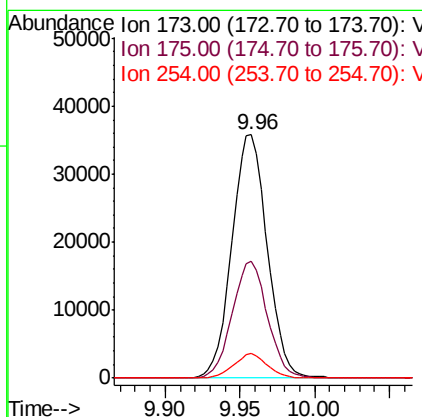
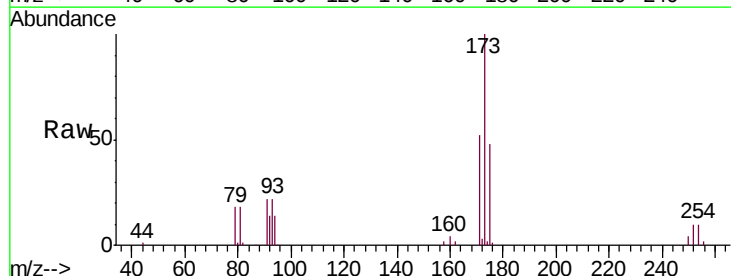
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

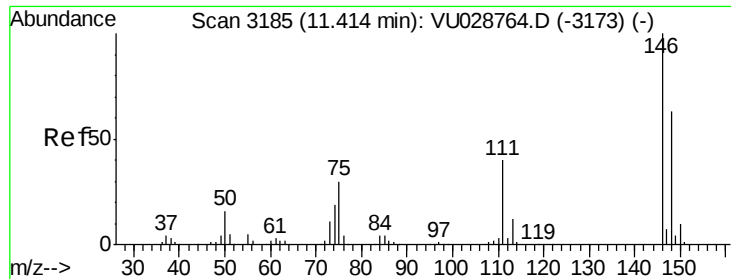
Tgt Ion: 75 Resp: 111582
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.4 38.2



#61
 Bromoform
 Concen: 55.605 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Tgt Ion: 173 Resp: 58846
 Ion Ratio Lower Upper
 173 100
 175 47.9 38.7 58.1
 254 9.3 7.1 10.7

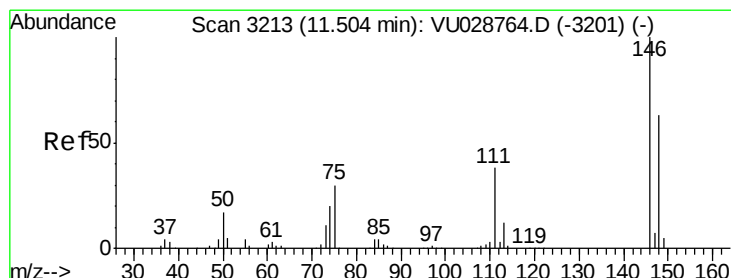
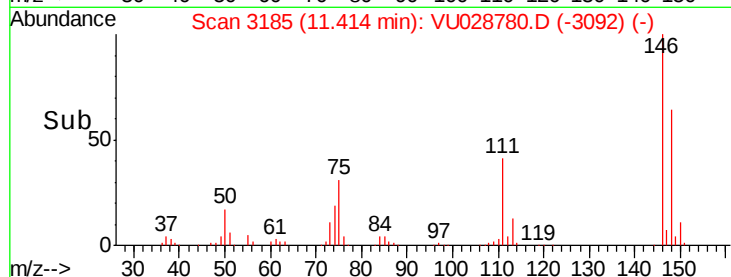
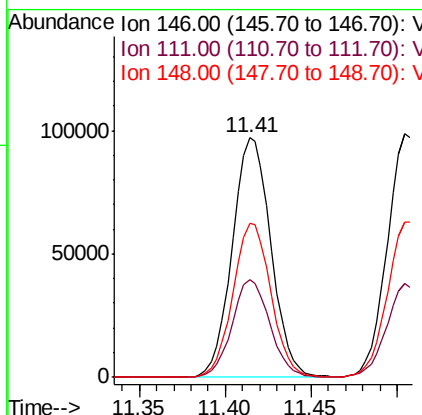
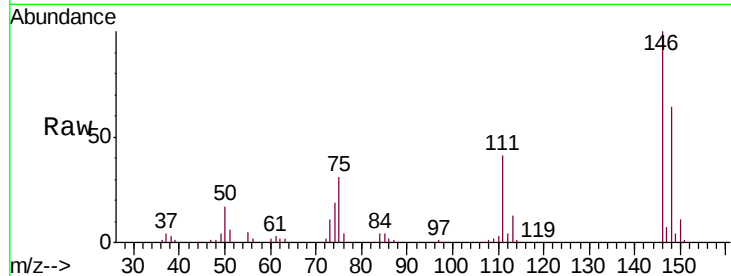




#62
 1,3-Dichlorobenzene
 Concen: 53.883 ug/L
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

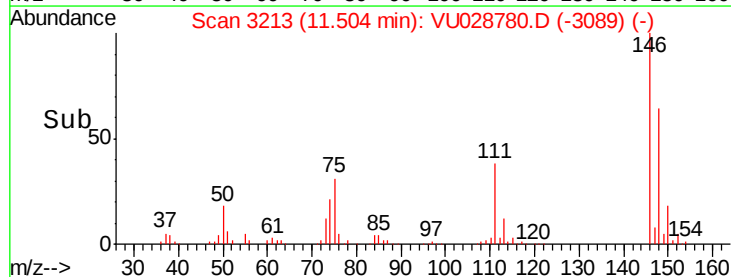
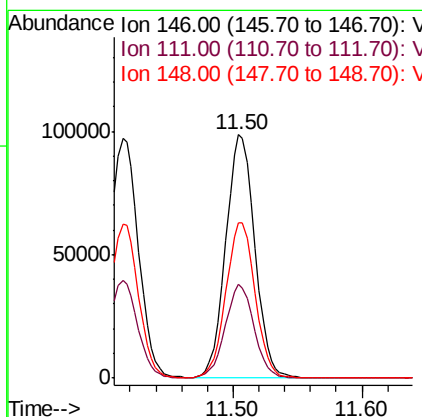
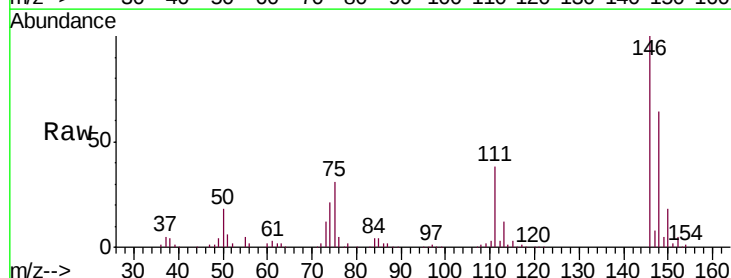
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

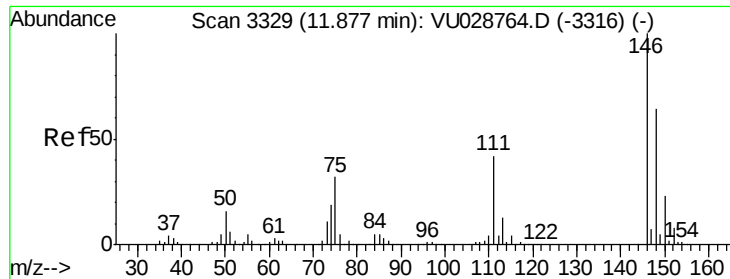
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.6	28.5	52.9
148	64.5	43.9	81.5



#63
 1,4-Dichlorobenzene
 Concen: 54.024 ug/L
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	27.6	51.4
148	63.6	45.1	83.9





#65

1,2-Dichlorobenzene

Concen: 56.122 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

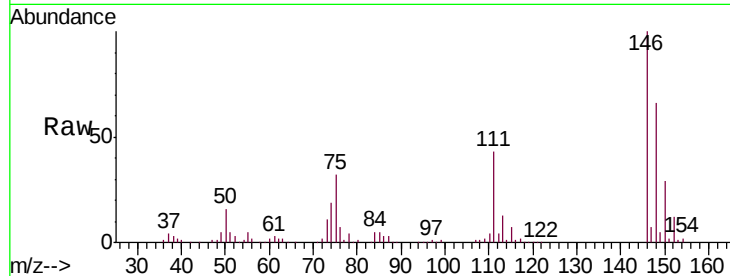
Tgt Ion:146 Resp: 158273

Ion Ratio Lower Upper

146 100

111 42.6 33.4 50.2

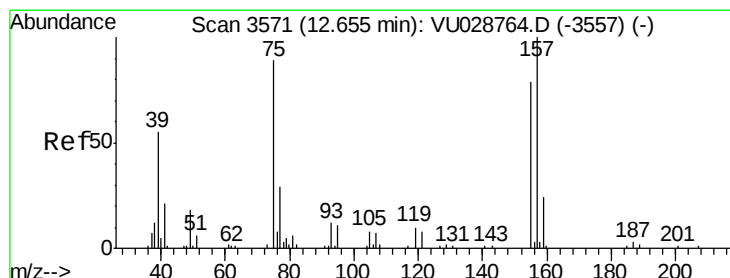
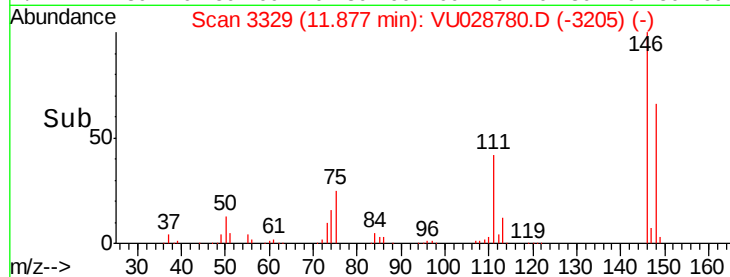
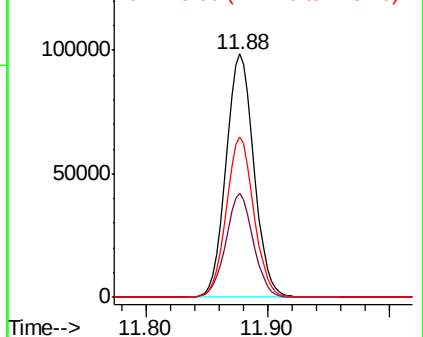
148 66.1 50.2 75.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 49.508 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

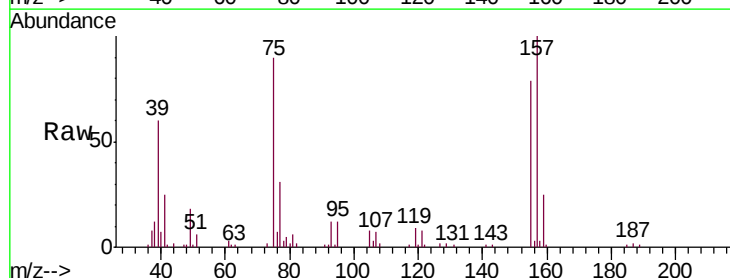
Tgt Ion: 75 Resp: 27490

Ion Ratio Lower Upper

75 100

155 88.5 59.9 89.9

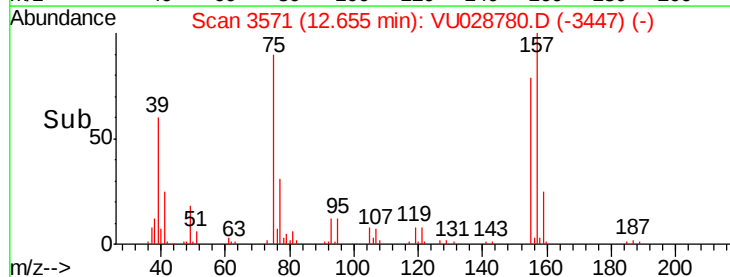
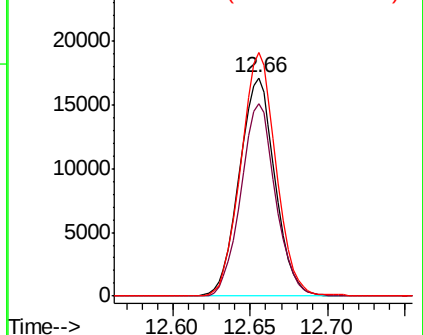
157 111.6 75.8 113.8

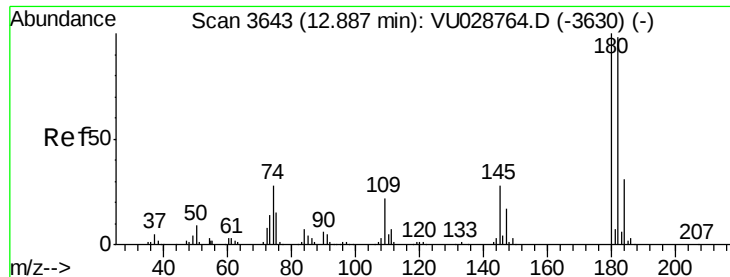


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

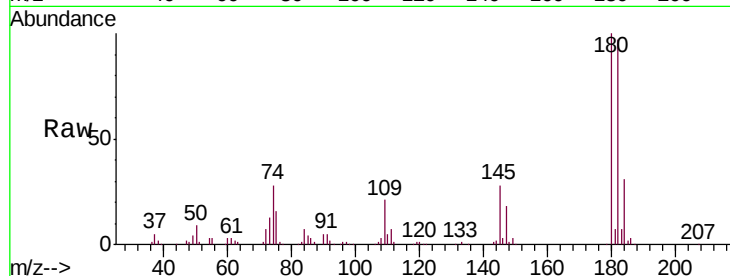




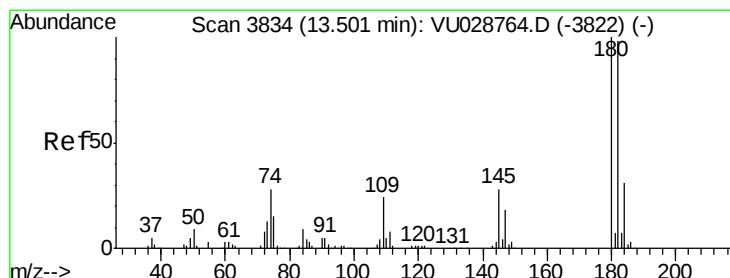
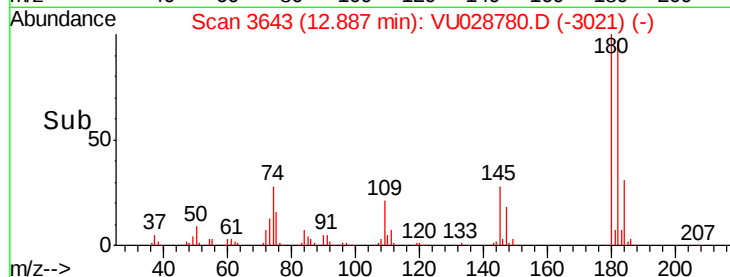
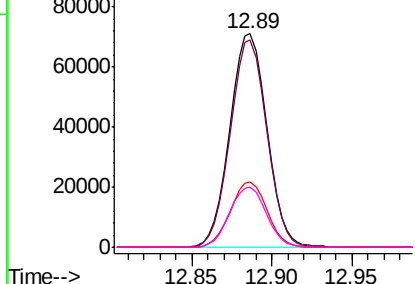
#67
 1,3,5-Trichlorobenzene
 Concen: 54.694 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	180	Resp:	112112
Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.0	112.6
184	30.2	23.9	35.9
145	27.8	23.8	35.8

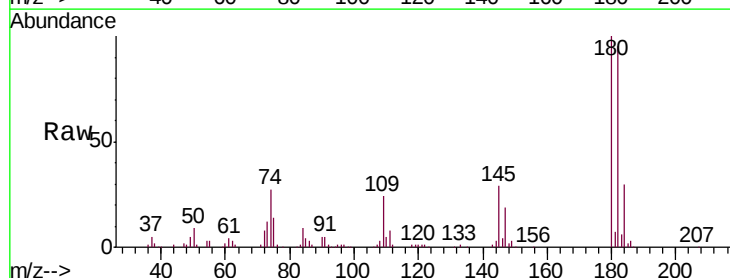


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

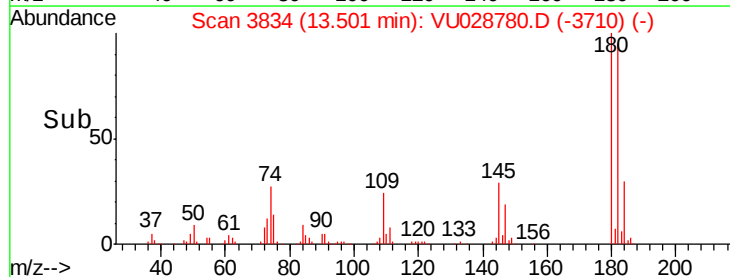
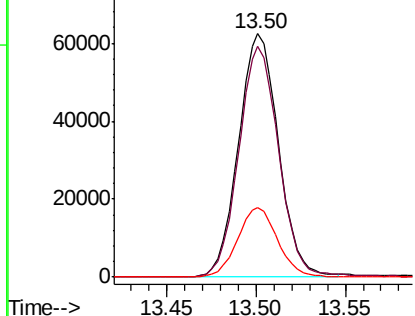


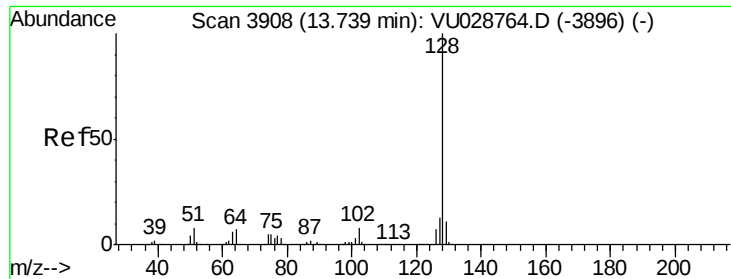
#68
 1,2,4-trichlorobenzene
 Concen: 50.644 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028780.D
 Acq: 18 Dec 2018 19:23

Tgt Ion:	180	Resp:	97370
Ion	Ratio	Lower	Upper
180	100		
182	94.9	74.8	112.2
145	28.5	23.0	34.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.721 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

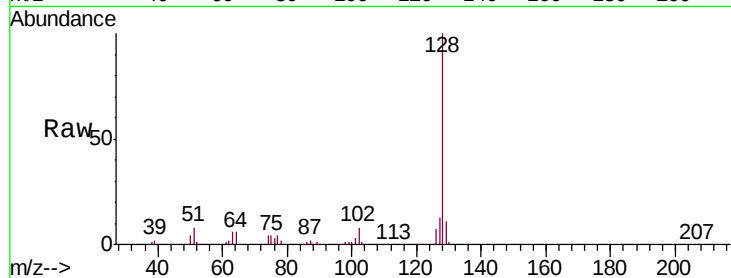
Tgt Ion:128 Resp: 349194

Ion Ratio Lower Upper

128 100

127 12.6 10.7 16.1

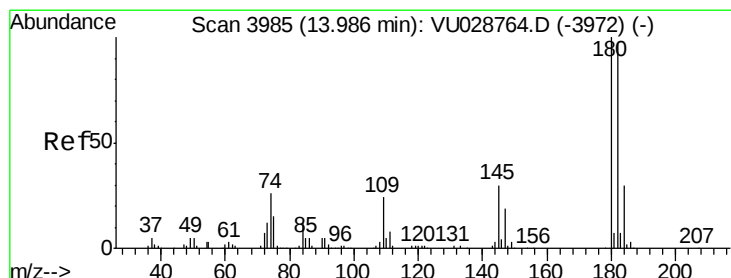
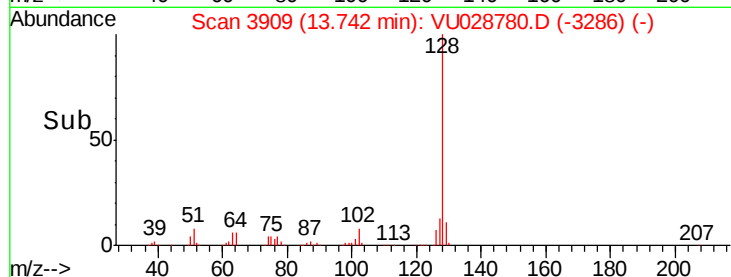
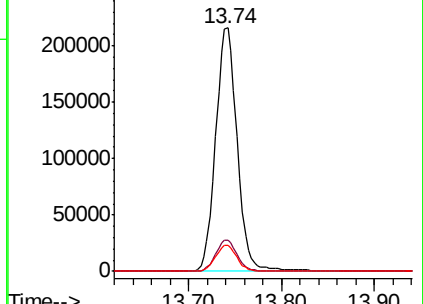
129 10.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 54.157 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028780.D

Acq: 18 Dec 2018 19:23

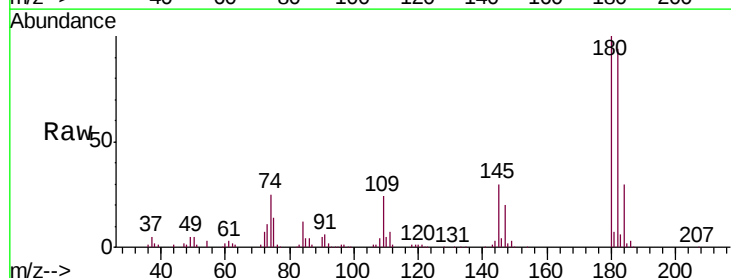
Tgt Ion:180 Resp: 104009

Ion Ratio Lower Upper

180 100

182 95.4 75.2 112.8

145 30.4 25.4 38.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

